

T e s t R e p o r t

Report No : LS1421F Amd. 1

Client: : Far Eastern Manufacturing Ltd
Major House
Unit B
964 North Circular Road
London
NW2 7JR

Description : LED Lite 24W UFO Downlight Daylight 6000K

Manufacturer : Not disclosed

Type/Model : LTUF24

Test Specification : Determination of Light Output Distribution Light Distribution measurements were made with reference to CIE 127 – 2007, clause 6.2.1; Goniophotometry Method

Date Testing Started : 17/05/2016

Conclusion : Refer to body of report

Date of Issue : 14/06/2016

Date of Expiry : 22/05/2021

Tested by: **S. RICHARDS**
Position: Photometrics Team
Leader



Approved by: **J. ADAMS**
Position: Certification and
Accreditation Officer



Amendment 1: The amendment to this test report recognises the addition of the luminous flux in Table 5.

INTRODUCTION

Far Eastern Manufacturing Ltd have supplied the product identified in page one for determination of light output distribution.

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	LED Lite 24W UFO Downlight Daylight 6000K
Model No.	LTUF24
Number of Samples	1
Condition on Receipt	Good
Nominal Dimensions	Ø 220mm x H 60mm
Product Supply Requirement	230-240V AC 50Hz
Lamp Type and Power	LED 24W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

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PROCEDURE

Table 2. Test Procedure and Equipment Used for Photometric Measurements

Test Standard	CIE 127 – 2007, clause 6.2.1; Goniophotometry Method
Equipment Used	LMT GO-DS 2000 goniophotometer
Standard Lamp Used	LMT Photometer Unit 01B6081
Standard Lamp Traceability	Traceable to luminous intensity standard lamp type OSRAM Wi41/G lamp No. 934
Scan Setup	Elevation: 0°-180°, step size: 5° Azimuth: 0°-360°, step size: 5°
Power Supply	LMT GO-DS 2000 goniophotometer
Power Measurement	LMT GO-DS 2000 goniophotometer
Temperature Measurement	Testo 925 Thermocouple reader (143)

Table 3. Lamp Conditioning and Setup

Lamp ageing Time (Hours)	0
Stabilisation Time (Hours)	1.0
Total Operating Time (Hours)	1.66
Support Structure	Goniophotometer luminaire mounting fixture

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TEST RESULTS

Table 4. Test Environmental and Operating Conditions

Ambient Temperature (°C)	25.0
Voltage (V)	240.2
Current (mA)	106.93
Power (W)	24.56
Power Factor	0.95

Table 5. Beam Angle and Luminous Flux Results

Luminous Flux (lm)	Centre Beam Intensity (cd)	Beam Angle (Lamp orientation)	Beam Angle Result (°)
2241.9	614.1	0-180	134.3
		90-270	134.5

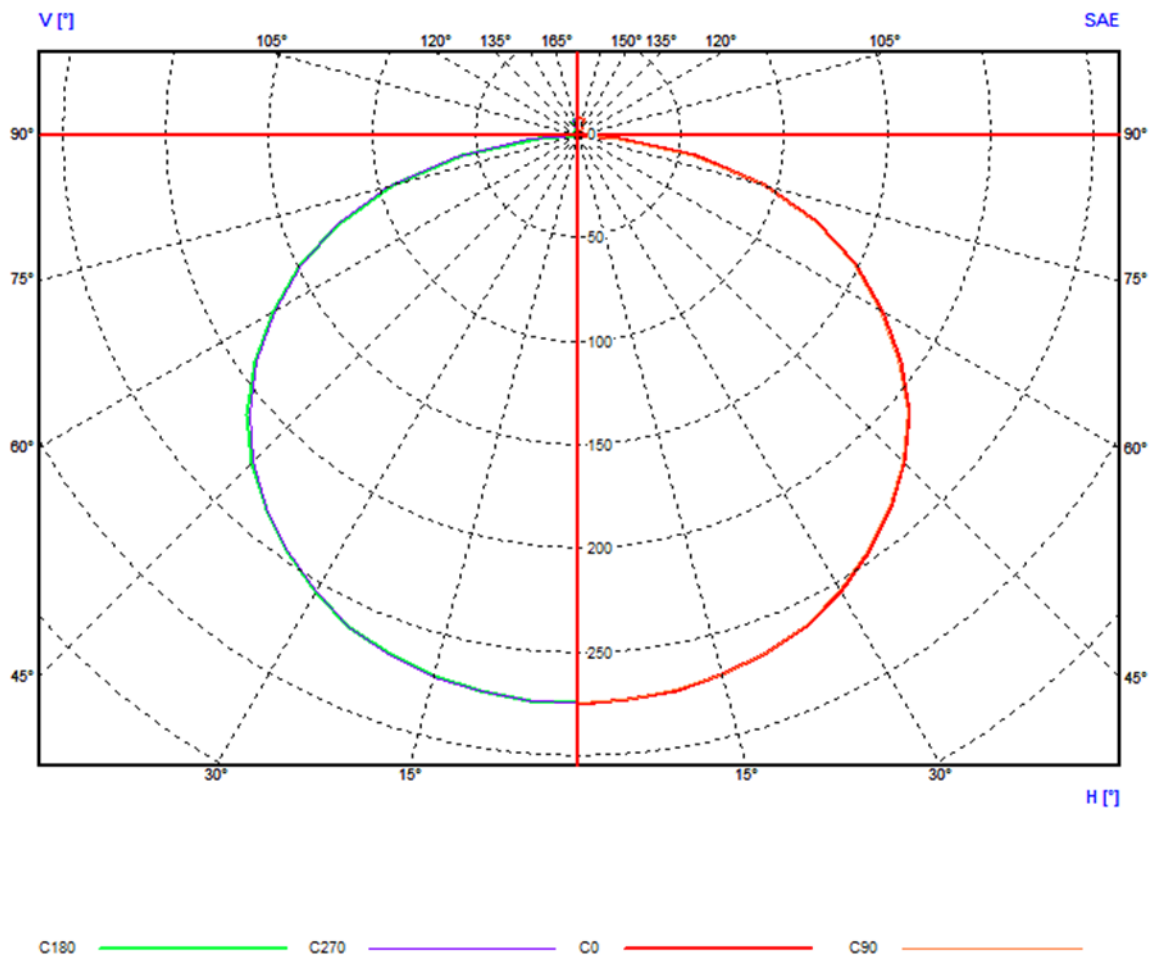


Figure 1. Polar Diagram

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Table 6. Luminous Intensities (cd)

Gamma	0	5	10	15	20	25	30	35	40	45	50	55
0	614.1	614.1	613.8	614.1	614.1	614.1	613.8	613.8	613.8	614.1	613.5	613.8
5	612.5	612.2	612.2	612.2	611.9	611.9	611.9	612.2	612.5	612.2	612.5	612.2
10	609.0	608.8	608.8	608.8	608.8	608.5	608.2	608.5	608.8	608.5	608.2	608.2
15	603.5	603.5	603.5	603.2	603.2	603.2	603.2	602.9	602.9	602.9	602.9	602.9
20	595.2	595.0	595.0	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.5	594.2
25	584.7	584.1	584.4	584.1	584.4	583.9	583.9	583.6	583.9	583.3	583.3	583.3
30	568.5	568.2	568.2	568.0	568.0	567.7	567.7	567.4	567.2	567.2	566.9	566.9
35	548.9	548.6	548.6	548.6	548.4	548.1	548.1	548.1	547.6	547.6	547.3	547.3
40	526.1	525.8	525.8	525.3	525.3	525.0	525.0	525.0	524.8	524.8	524.3	524.0
45	499.4	499.1	499.1	498.8	498.6	497.8	497.5	498.0	498.0	498.0	497.2	496.7
50	467.3	467.3	466.8	466.2	466.2	465.2	465.4	465.7	465.7	466.0	464.9	464.6
55	426.5	426.0	428.4	427.8	427.3	426.8	425.2	425.4	427.8	427.0	426.5	426.0
60	380.7	380.4	380.9	382.0	381.7	380.4	380.1	380.1	380.7	381.2	381.2	380.4
65	331.7	331.4	331.1	330.9	331.1	331.1	330.9	331.1	331.4	331.1	331.4	331.4
70	275.2	275.0	274.4	274.4	274.4	274.4	274.7	275.0	275.0	275.0	275.2	275.2
75	209.3	208.7	208.0	207.7	207.4	207.4	207.4	207.4	207.7	207.7	207.7	207.4
80	129.4	128.8	128.1	127.4	126.9	126.5	126.1	125.9	125.8	125.7	125.6	125.2
85	44.9	44.2	43.6	43.0	42.5	42.0	41.3	40.8	40.5	40.1	39.8	39.6
90	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
95	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
105	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
110	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.6	1.5	1.5	1.6
115	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
120	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.4	4.4	4.4	4.4	4.4
125	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.3	4.2
130	4.5	4.5	4.5	4.4	4.3	4.2	4.2	4.1	4.1	4.0	3.9	3.9
135	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.6	4.6	4.6	4.6
140	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
145	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
150	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
155	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
160	16.0	16.0	16.0	16.0	16.1	16.1	16.1	16.2	16.2	16.2	16.2	16.2
165	18.4	18.4	18.5	18.5	18.5	18.6	18.6	18.7	18.8	18.9	18.9	19.0
170	18.7	18.7	18.7	18.8	18.8	18.9	18.9	19.0	19.1	19.2	19.2	19.3
175	17.7	17.7	17.7	17.7	17.7	17.7	17.8	17.9	17.9	18.0	18.0	18.1
180	17.6	17.6	17.6	17.6	17.6	17.7	17.7	17.8	17.8	17.9	17.9	17.9

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Table 6 Continued...

Gamma	60	65	70	75	80	85	90	95	100	105	110	115
0	613.5	613.5	613.8	613.5	613.5	613.5	613.3	613.5	613.5	613.5	613.5	613.5
5	611.9	611.9	611.7	611.7	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9
10	608.2	608.2	608.5	608.5	608.5	608.8	608.5	608.5	608.5	608.5	609.0	609.3
15	602.9	602.9	602.9	602.7	602.7	602.9	602.9	602.9	602.9	603.2	603.2	603.7
20	594.2	594.5	594.5	594.5	594.2	594.5	594.5	594.5	594.7	595.0	595.0	595.2
25	583.6	583.6	583.6	583.6	583.3	583.3	583.1	583.3	583.6	583.6	583.6	583.9
30	567.2	567.2	567.2	567.2	567.2	567.2	567.2	566.9	567.2	567.4	568.0	568.0
35	547.3	547.3	547.3	547.3	547.6	547.8	547.6	547.6	547.8	548.1	547.8	548.4
40	524.3	524.0	524.0	524.0	524.0	524.3	524.0	524.5	524.8	524.5	524.5	524.5
45	497.2	497.2	497.0	496.7	496.7	497.0	497.2	497.2	497.2	497.2	497.0	497.2
50	464.6	465.2	464.4	464.9	464.1	464.9	464.6	464.6	464.9	464.9	464.6	464.1
55	424.9	425.2	426.2	424.9	425.2	426.5	423.3	423.9	426.5	424.1	424.6	425.7
60	379.9	379.6	379.9	379.9	379.9	378.6	377.8	377.8	378.3	379.6	379.3	378.8
65	331.4	331.1	330.6	329.8	329.5	329.3	329.0	328.8	328.8	329.0	329.3	329.5
70	275.2	274.7	274.2	273.4	273.1	272.9	272.6	272.3	272.3	272.3	272.3	272.9
75	207.4	206.9	206.1	205.6	205.6	205.3	205.0	204.8	204.8	204.5	204.2	204.5
80	124.8	124.3	123.8	123.6	123.4	123.3	123.3	123.1	122.9	122.8	122.7	122.8
85	39.3	39.0	38.8	38.7	38.6	38.5	38.5	38.4	38.3	38.3	38.3	38.4
90	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
95	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
105	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
110	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
115	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
120	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
125	4.2	4.1	4.1	4.0	3.9	3.9	3.7	3.7	3.7	3.7	3.7	3.7
130	3.9	3.9	3.9	3.9	3.9	4.0	4.1	4.1	4.1	4.2	4.3	4.3
135	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5
140	3.7	3.7	3.7	3.6	3.6	3.7	3.6	3.6	3.6	3.6	3.6	3.6
145	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
150	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
155	10.9	10.8	10.9	10.9	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
160	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
165	19.0	19.0	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
170	19.4	19.4	19.5	19.5	19.6	19.6	19.6	19.6	19.6	19.6	19.5	19.4
175	18.1	18.2	18.2	18.2	18.2	18.3	18.2	18.2	18.1	18.2	18.2	18.2
180	18.0	18.0	18.0	18.1	18.1	18.0	18.0	18.0	18.0	18.0	18.0	18.0

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Table 6 Continued...

Gamma	120	125	130	135	140	145	150	155	160	165	170	175
0	613.8	613.8	613.8	613.5	613.8	613.5	613.8	613.8	613.8	613.8	613.8	613.8
5	611.9	611.9	612.2	612.2	612.5	612.5	612.5	612.5	612.5	612.5	612.7	613.0
10	609.3	609.8	609.8	609.8	610.1	610.1	610.3	610.6	610.3	610.6	610.6	610.6
15	604.0	604.0	604.3	604.3	604.5	604.8	605.1	605.3	605.3	605.3	605.6	605.8
20	595.5	595.8	596.0	596.0	596.3	596.3	596.6	596.8	597.1	597.4	597.9	597.6
25	583.9	584.1	584.4	584.4	584.7	584.9	585.2	585.7	586.0	586.0	586.5	586.5
30	568.0	568.0	568.0	568.2	568.5	568.5	569.0	569.0	569.6	569.8	570.1	570.1
35	548.4	548.6	548.6	548.9	549.2	549.4	549.7	549.9	550.2	550.5	550.7	551.0
40	524.8	525.0	525.3	525.6	525.8	525.8	525.8	526.1	526.4	527.2	527.4	528.0
45	497.2	497.8	498.6	498.6	498.6	498.6	499.1	499.4	499.6	500.1	500.1	500.9
50	464.6	465.4	466.2	466.2	466.0	466.0	467.0	467.3	466.8	467.3	468.1	469.2
55	424.1	424.9	428.1	427.0	427.0	427.8	426.2	426.8	429.2	428.9	429.7	430.5
60	378.8	379.3	379.9	381.5	381.5	381.2	381.2	381.5	382.0	383.3	383.6	383.1
65	329.8	330.1	330.6	330.9	331.4	331.9	332.5	332.7	332.7	332.7	333.0	333.5
70	273.1	273.7	273.9	274.2	274.4	275.0	275.5	276.0	275.8	275.8	276.3	276.6
75	205.0	205.3	205.8	206.1	206.4	206.6	207.2	207.7	207.7	208.0	208.2	208.7
80	123.1	123.4	123.7	123.8	124.1	124.3	124.7	125.1	125.5	126.0	126.7	127.3
85	38.5	38.5	38.7	38.9	39.2	39.6	39.9	40.3	40.7	41.3	42.0	42.7
90	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
95	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
105	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
110	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.5	1.5	1.6	1.5
115	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
120	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
125	3.7	3.7	3.8	3.8	3.9	3.9	4.0	4.1	4.2	4.2	4.3	4.3
130	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.5	4.4
135	4.5	4.6	4.6	4.5	4.5	4.5	4.6	4.6	4.6	4.6	4.6	4.6
140	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
145	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
150	6.3	6.3	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
155	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
160	16.2	16.2	16.2	16.2	16.2	16.1	16.1	16.1	16.0	15.9	15.9	15.9
165	19.0	19.0	18.9	18.9	18.8	18.7	18.6	18.5	18.4	18.3	18.3	18.3
170	19.4	19.3	19.2	19.1	19.0	18.9	18.8	18.8	18.6	18.5	18.5	18.5
175	18.2	18.2	18.1	18.1	18.0	18.0	17.9	17.8	17.7	17.6	17.6	17.6
180	18.0	17.9	17.9	17.8	17.8	17.7	17.7	17.7	17.6	17.6	17.6	17.6

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Table 6 Continued...

Gamma	180	185	190	195	200	205	210	215	220	225	230	235
0	613.8	613.8	613.5	613.8	613.8	613.8	613.8	613.8	613.8	613.8	614.1	613.8
5	612.7	612.7	613.0	613.0	613.0	613.3	613.0	613.3	613.3	613.3	613.3	613.3
10	610.6	610.9	610.6	610.9	610.9	610.9	610.9	611.1	610.9	610.9	610.9	610.9
15	605.8	605.8	606.1	606.4	606.4	606.4	606.4	606.4	606.4	606.4	606.4	606.1
20	597.9	598.2	598.7	599.0	599.2	599.2	598.7	598.7	598.7	598.7	598.7	598.7
25	586.8	587.3	587.6	587.8	588.1	587.8	587.8	587.8	587.6	587.8	587.8	587.6
30	570.6	570.6	570.6	571.1	571.1	571.4	571.1	571.1	571.1	570.9	570.9	570.9
35	551.3	551.3	551.5	552.1	551.8	552.1	552.1	551.8	551.8	551.5	551.3	551.3
40	528.2	528.5	528.2	528.5	528.8	528.5	528.8	529.0	528.5	528.5	528.2	528.2
45	501.2	501.5	501.2	501.5	501.5	501.2	501.5	502.0	502.3	501.7	500.9	500.9
50	469.7	469.4	468.6	469.2	469.7	469.2	469.9	470.2	470.7	470.2	468.9	468.4
55	427.8	428.1	430.7	431.8	432.6	431.0	429.2	429.2	430.7	433.7	431.8	431.3
60	382.5	382.8	383.6	385.4	385.4	384.6	383.9	384.1	384.6	385.7	386.0	384.9
65	333.5	333.8	334.0	334.6	335.1	335.4	335.6	335.6	335.9	335.6	335.6	335.6
70	276.8	277.1	277.6	278.4	278.7	279.5	279.7	280.0	280.3	280.5	280.5	280.8
75	209.0	209.5	210.3	210.9	211.4	212.2	213.0	213.5	213.8	213.8	214.3	214.8
80	127.9	128.5	129.2	130.0	130.6	131.4	132.1	132.6	133.1	133.5	134.0	134.6
85	43.3	43.9	44.6	45.2	45.9	46.6	47.3	47.9	48.5	49.1	49.6	50.2
90	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.9
95	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	1.0	0.9	0.9
105	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
110	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
115	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
120	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
125	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2
130	4.5	4.5	4.4	4.4	4.3	4.3	4.2	4.2	4.1	4.1	4.0	4.0
135	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
140	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
145	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.2	4.1	4.1	4.1
150	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
155	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
160	15.9	15.9	15.9	15.9	16.0	16.0	16.1	16.1	16.2	16.2	16.2	16.2
165	18.2	18.3	18.3	18.3	18.4	18.5	18.6	18.7	18.8	18.9	18.9	19.0
170	18.4	18.4	18.5	18.6	18.6	18.7	18.8	18.9	19.0	19.1	19.2	19.3
175	17.5	17.5	17.5	17.6	17.6	17.7	17.8	17.9	17.9	18.0	18.0	18.1
180	17.6	17.6	17.6	17.6	17.7	17.7	17.8	17.8	17.9	17.9	18.0	18.1

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Table 6 Continued...

Gamma	240	245	250	255	260	265	270	275	280	285	290	295
0	614.1	614.1	614.1	614.1	614.1	614.1	613.8	613.8	613.8	613.8	613.8	613.8
5	613.3	613.3	613.3	613.3	613.3	613.3	613.0	613.0	613.3	613.3	613.3	613.3
10	610.9	610.9	610.9	610.9	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.3
15	606.4	606.4	606.4	606.4	606.1	605.8	606.1	606.1	605.8	605.8	605.6	605.3
20	598.7	598.7	598.7	598.4	598.4	598.4	598.2	598.2	597.9	597.6	597.4	597.1
25	587.3	587.3	587.3	587.3	587.0	586.8	586.8	586.2	586.2	586.0	586.0	585.7
30	570.9	570.3	570.3	570.3	570.1	570.1	569.6	569.8	569.3	569.0	568.8	568.5
35	551.3	551.3	550.7	550.5	549.9	549.9	549.7	549.4	548.9	548.9	548.9	548.6
40	528.0	527.7	527.7	527.4	526.6	526.4	526.1	525.6	525.3	525.3	525.0	525.0
45	500.7	500.9	500.7	500.4	499.4	498.8	498.3	498.3	498.3	497.8	497.8	497.8
50	469.2	469.2	468.6	468.4	467.3	465.7	466.0	465.7	465.4	465.4	464.4	464.9
55	428.6	427.6	427.6	430.7	431.8	429.2	426.2	423.9	424.1	426.8	429.2	429.7
60	384.1	383.3	383.6	384.1	383.1	382.3	380.7	379.9	379.9	380.7	381.2	380.9
65	335.6	335.1	334.6	334.0	333.5	333.0	331.9	331.7	331.4	331.4	331.1	331.1
70	280.8	280.5	280.0	279.7	279.5	278.9	278.4	277.6	277.4	277.4	277.4	277.1
75	215.1	215.1	215.1	215.1	215.1	215.1	214.6	214.3	213.8	213.5	213.3	213.3
80	135.1	135.4	135.7	136.0	136.2	136.5	136.4	136.2	135.9	135.5	135.1	134.7
85	50.6	50.9	51.3	51.6	51.9	52.1	52.3	52.2	52.1	51.9	51.7	51.3
90	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0
95	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
100	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
105	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
110	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
115	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
120	4.4	4.4	4.3	4.4	4.3	4.3	4.3	4.3	4.4	4.4	4.3	4.4
125	4.2	4.1	4.1	4.0	4.0	3.9	3.8	3.8	3.8	3.8	3.8	3.8
130	3.9	3.9	3.9	3.9	4.0	4.1	4.1	4.1	4.1	4.2	4.3	4.3
135	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
140	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
145	4.1	4.1	4.1	4.2	4.2	4.1	4.2	4.2	4.2	4.2	4.2	4.2
150	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.3
155	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
160	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.1	16.2	16.2	16.2
165	19.0	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.2	19.2
170	19.3	19.4	19.5	19.6	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.6
175	18.2	18.3	18.3	18.3	18.3	18.3	18.4	18.4	18.3	18.3	18.3	18.4
180	18.1	18.2	18.2	18.1	18.1	18.1	18.0	17.9	18.0	18.0	18.0	18.0

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Table 6 Continued...

Gamma	300	305	310	315	320	325	330	335	340	345	350	355
0	613.8	613.8	613.8	614.1	614.1	614.1	614.1	613.8	614.1	614.1	613.8	614.1
5	613.0	613.0	613.3	613.0	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.5
10	610.3	610.3	610.3	610.1	609.8	609.8	609.8	609.6	609.6	609.3	609.3	609.0
15	605.1	605.1	604.8	604.8	605.1	604.8	604.5	604.5	604.3	604.0	603.7	603.7
20	597.1	596.8	596.8	596.6	596.6	596.3	596.3	596.0	595.8	595.5	595.5	595.2
25	585.4	585.2	585.2	585.4	585.4	585.4	585.2	585.2	584.9	584.9	584.9	584.7
30	568.5	568.8	568.5	568.8	568.5	568.5	568.5	568.5	568.5	568.8	568.5	568.5
35	548.9	548.9	548.9	548.9	548.6	548.6	548.6	548.6	548.6	548.9	548.6	548.4
40	525.3	525.3	525.6	525.6	525.3	525.3	525.3	525.3	525.0	525.3	525.6	525.6
45	497.8	498.6	498.6	498.6	498.6	498.3	498.6	498.0	497.8	497.8	498.8	499.4
50	465.7	466.0	466.5	466.0	465.7	466.2	466.8	465.2	464.9	465.4	466.2	467.0
55	426.2	424.1	424.9	427.6	429.2	429.2	427.0	424.4	426.2	428.4	427.8	429.4
60	380.1	379.6	380.1	381.2	382.0	382.0	380.9	380.7	380.9	381.7	382.5	381.5
65	330.9	331.1	331.4	331.7	332.2	332.2	332.2	332.2	332.2	332.2	332.2	332.2
70	277.1	277.1	277.6	277.6	277.6	277.4	277.1	276.8	276.6	276.3	276.3	275.8
75	213.0	213.3	213.3	213.3	213.0	212.5	211.9	211.7	211.1	210.9	210.3	210.1
80	134.7	134.6	134.5	134.4	134.0	133.4	132.7	132.3	131.9	131.4	130.8	130.1
85	50.9	50.7	50.4	50.1	49.6	49.0	48.4	48.0	47.6	47.0	46.4	45.6
90	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7
95	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
100	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
105	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1
110	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6
115	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.9	3.9
120	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
125	3.8	3.8	3.9	3.9	4.0	4.0	4.1	4.2	4.2	4.3	4.3	4.4
130	4.3	4.4	4.4	4.4	4.4	4.4	4.4	4.5	4.5	4.5	4.5	4.5
135	4.5	4.5	4.5	4.5	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6
140	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.7	3.7
145	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
150	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
155	10.8	10.8	10.8	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
160	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.1	16.1	16.1	16.1	16.0
165	19.1	19.0	19.0	18.9	18.9	18.8	18.7	18.6	18.6	18.5	18.5	18.5
170	19.5	19.5	19.4	19.3	19.3	19.2	19.1	19.0	18.9	18.8	18.8	18.7
175	18.4	18.3	18.3	18.3	18.2	18.1	18.1	18.0	17.9	17.8	17.7	17.7
180	17.9	17.8	17.8	17.8	17.7	17.7	17.6	17.6	17.6	17.6	17.6	17.5

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PRODUCT DIAGRAM & IDENTIFICATION OF PHOTOMETRIC CENTRE

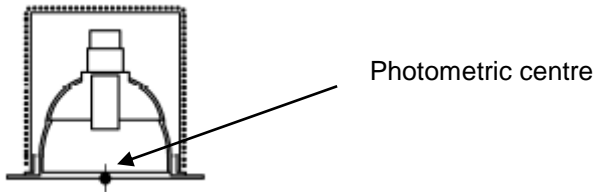


Figure 2. Product photometric centre

ILLUSTRATION



Figure 3. Product image

End