

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P772631

Luminaire Tested: LD6D85BD010-EU6DR3070959027-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D85BD010-EU6DR3070959027-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10779.9 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

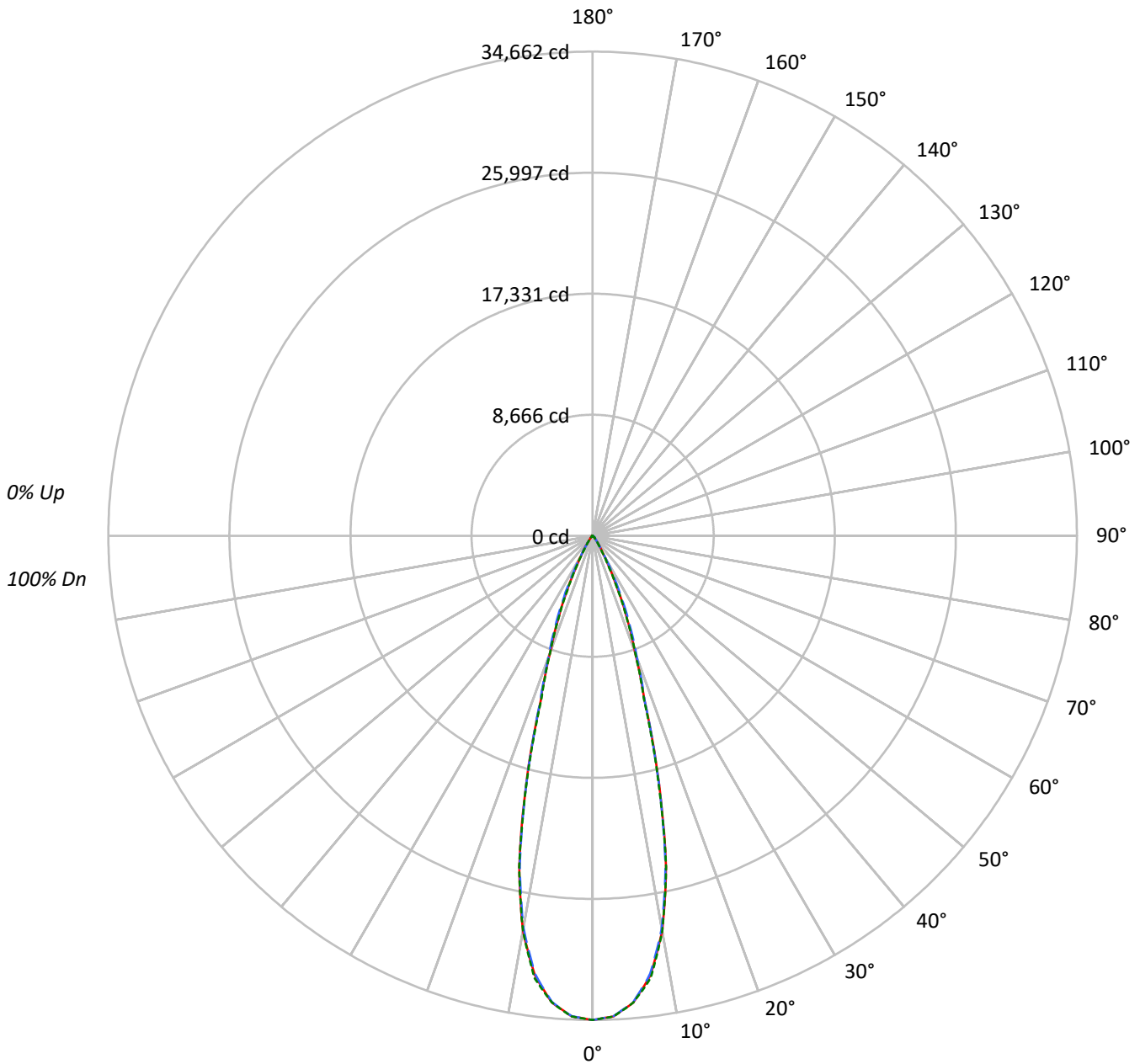


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2653185	2653185	2653185
5°	2577018	2574014	2577149
10°	2232091	2216352	2231563
15°	1456330	1448509	1441226
20°	724166	751332	723197
25°	364784	411353	357309
30°	146056	159137	127247
35°	67746	64877	54383
40°	29247	32474	27548
45°	20632	25612	20816
50°	7097	18648	7502
55°	4084	7727	4310
60°	2863	3383	2863
65°	1847	1847	1847
70°	1141	761	1141
75°	0	503	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 25612 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3048.0	28.3
10°-20°	4908.9	45.5
20°-30°	2121.3	19.7
30°-40°	483.5	4.5
40°-50°	166.0	1.5
50°-60°	40.5	0.4
60°-70°	10.5	0.1
70°-80°	1.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10078.2	93.5
0°-40°	10561.7	98.0
0°-60°	10768.3	99.9
0°-90°	10779.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10779.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34662	34662	34662	34662	34662	
5°	33539	33507	33500	33570	33541	3051
15°	18378	18157	18279	18220	18187	4921
25°	4319	4483	4871	4369	4231	2067
35°	725	740	694	689	582	492
45°	191	237	237	237	192	135
55°	31	32	58	34	32	30
65°	10	10	10	10	10	10
75°	0	0	2	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	34662.5	34662.5	34662.5	34662.5	34662.5
2.5°	34432.8	34409.0	34422.6	34439.6	34446.4
5°	33539.3	33507.0	33500.2	33570.0	33541.0
7.5°	31737.1	31691.2	31621.4	31779.7	31927.7
10°	28718.1	28667.0	28515.6	28590.5	28711.3
12.5°	24261.1	24096.0	24092.6	24330.8	24298.5
15°	18377.9	18156.6	18279.2	18219.6	18187.3
17.5°	12358.6	12273.5	12436.9	12387.5	12174.8
20°	8890.3	8912.4	9223.8	9067.3	8878.4
22.5°	6487.3	6567.3	6936.6	6533.3	6385.2
25°	4319.2	4482.6	4870.6	4368.6	4230.7
27.5°	2656.5	2731.4	3124.5	2622.5	2547.6
30°	1652.5	1615.0	1800.5	1545.2	1439.7
32.5°	1084.1	1036.4	1096.0	983.6	898.6
35°	725.0	740.3	694.3	689.2	582.0
37.5°	452.7	520.8	459.5	490.1	374.4
40°	292.7	377.8	325.0	359.1	275.7
42.5°	240.0	291.0	267.2	284.2	245.1
45°	190.6	236.6	236.6	236.6	192.3
47.5°	105.5	158.3	202.5	161.7	112.3
50°	59.6	80.0	156.6	83.4	63.0
52.5°	40.8	45.9	107.2	47.7	42.5
55°	30.6	32.3	57.9	34.0	32.3
57.5°	23.8	25.5	30.6	25.5	23.8
60°	18.7	18.7	22.1	20.4	18.7
62.5°	13.6	13.6	15.3	13.6	13.6
65°	10.2	10.2	10.2	10.2	10.2
67.5°	5.1	6.8	6.8	6.8	6.8
70°	5.1	3.4	3.4	3.4	5.1
72.5°	3.4	1.7	1.7	1.7	1.7
75°	0.0	0.0	1.7	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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