

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: P772616

Luminaire Tested: LD6D85BD010-EU6DR3070959024-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772616
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-EU6DR3070959024-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8497.4 lumens
Efficiency: N/A
Efficacy: 96.9 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

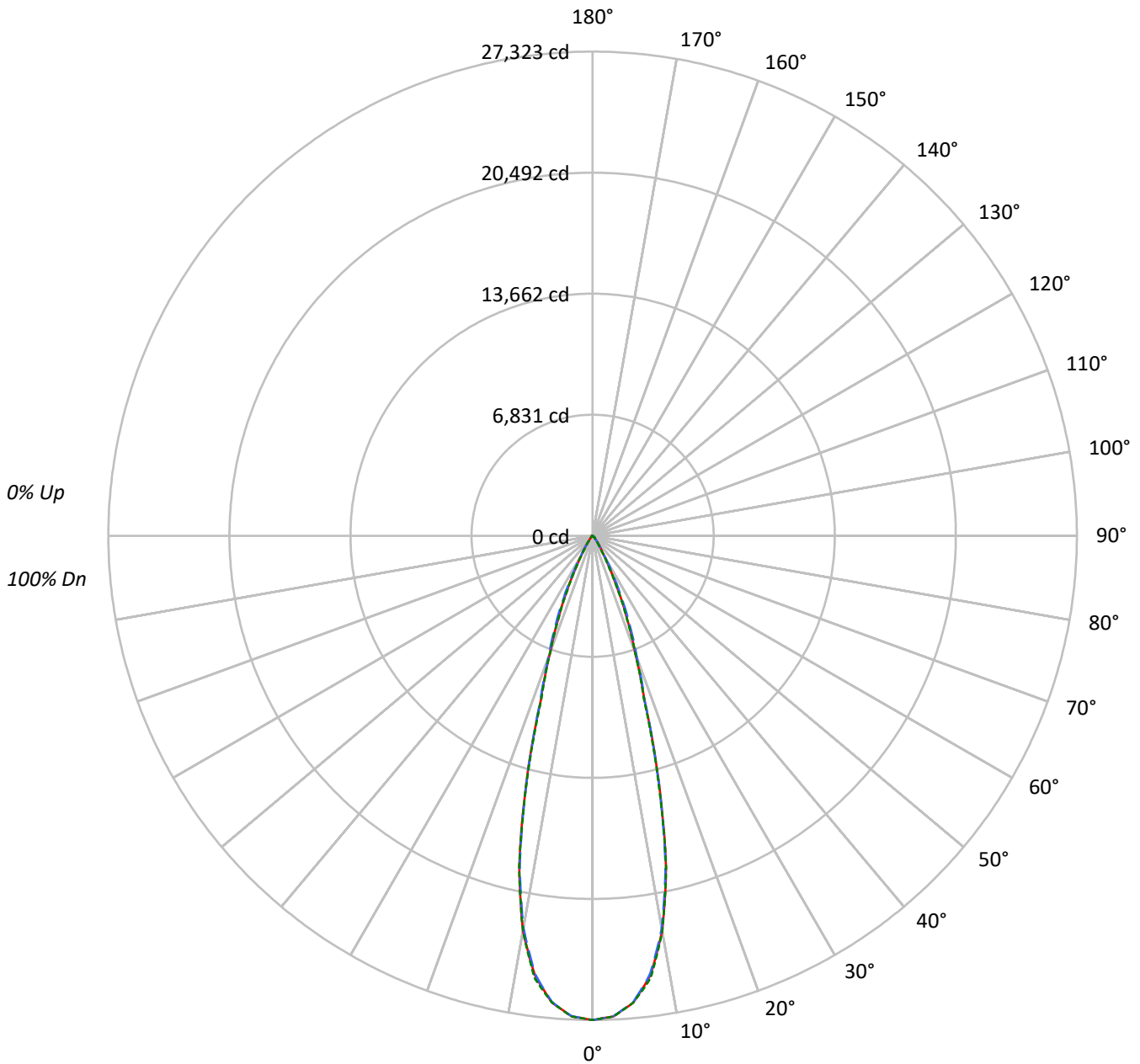
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	2091418	2091418	2091418
5°	2031377	2029010	2031484
10°	1759482	1747077	1759062
15°	1147978	1141812	1136067
20°	570834	592249	570068
25°	287548	324253	281653
30°	115130	125444	100308
35°	53402	51141	42871
40°	23052	25600	21713
45°	16259	20188	16411
50°	5597	14695	5906
55°	3216	6085	3403
60°	2266	2664	2266
65°	1449	1449	1449
70°	895	604	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 20188 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2402.7	28.3
10°-20°	3869.5	45.5
20°-30°	1672.1	19.7
30°-40°	381.1	4.5
40°-50°	130.9	1.5
50°-60°	32.0	0.4
60°-70°	8.3	0.1
70°-80°	0.9	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°	7944.3	93.5
0°-40°	8325.4	98.0
0°-60°	8488.2	99.9
0°-90°	8497.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8497.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27323	27323	27323	27323	27323	
5°	26438	26412	26407	26462	26439	2405
15°	14487	14312	14409	14362	14336	3879
25°	3405	3534	3839	3444	3335	1630
35°	572	584	547	543	459	388
45°	150	186	186	186	152	107
55°	24	26	46	27	26	24
65°	8	8	8	8	8	8
75°	0	0	1	0	0	1
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°	27323.3	27323.3	27323.3	27323.3	27323.3
2.5°	27142.2	27123.4	27134.2	27147.6	27152.9
5°	26437.9	26412.4	26407.1	26462.1	26439.3
7.5°	25017.3	24981.1	24926.1	25050.8	25167.5
10°	22637.5	22597.3	22477.9	22536.9	22632.1
12.5°	19124.2	18994.0	18991.4	19179.2	19153.7
15°	14486.7	14312.3	14408.9	14361.9	14336.4
17.5°	9741.8	9674.8	9803.6	9764.6	9597.0
20°	7007.9	7025.3	7270.8	7147.4	6998.5
22.5°	5113.7	5176.8	5467.9	5149.9	5033.2
25°	3404.7	3533.5	3839.3	3443.6	3334.9
27.5°	2094.1	2153.1	2463.0	2067.2	2008.2
30°	1302.6	1273.1	1419.3	1218.1	1134.9
32.5°	854.5	817.0	863.9	775.4	708.3
35°	571.5	583.5	547.3	543.3	458.8
37.5°	356.8	410.5	362.2	386.3	295.1
40°	230.7	297.8	256.2	283.1	217.3
42.5°	189.1	229.4	210.6	224.0	193.2
45°	150.2	186.5	186.5	186.5	151.6
47.5°	83.2	124.8	159.6	127.4	88.5
50°	47.0	63.0	123.4	65.7	49.6
52.5°	32.2	36.2	84.5	37.6	33.5
55°	24.1	25.5	45.6	26.8	25.5
57.5°	18.8	20.1	24.1	20.1	18.8
60°	14.8	14.8	17.4	16.1	14.8
62.5°	10.7	10.7	12.1	10.7	10.7
65°	8.0	8.0	8.0	8.0	8.0
67.5°	4.0	5.4	5.4	5.4	5.4
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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