

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: P772665

Luminaire Tested: LD6D85BD010-EU6DR3070959040-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772665
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-EU6DR3070959040-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10628.5 lumens
Efficiency: N/A
Efficacy: 121.2 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

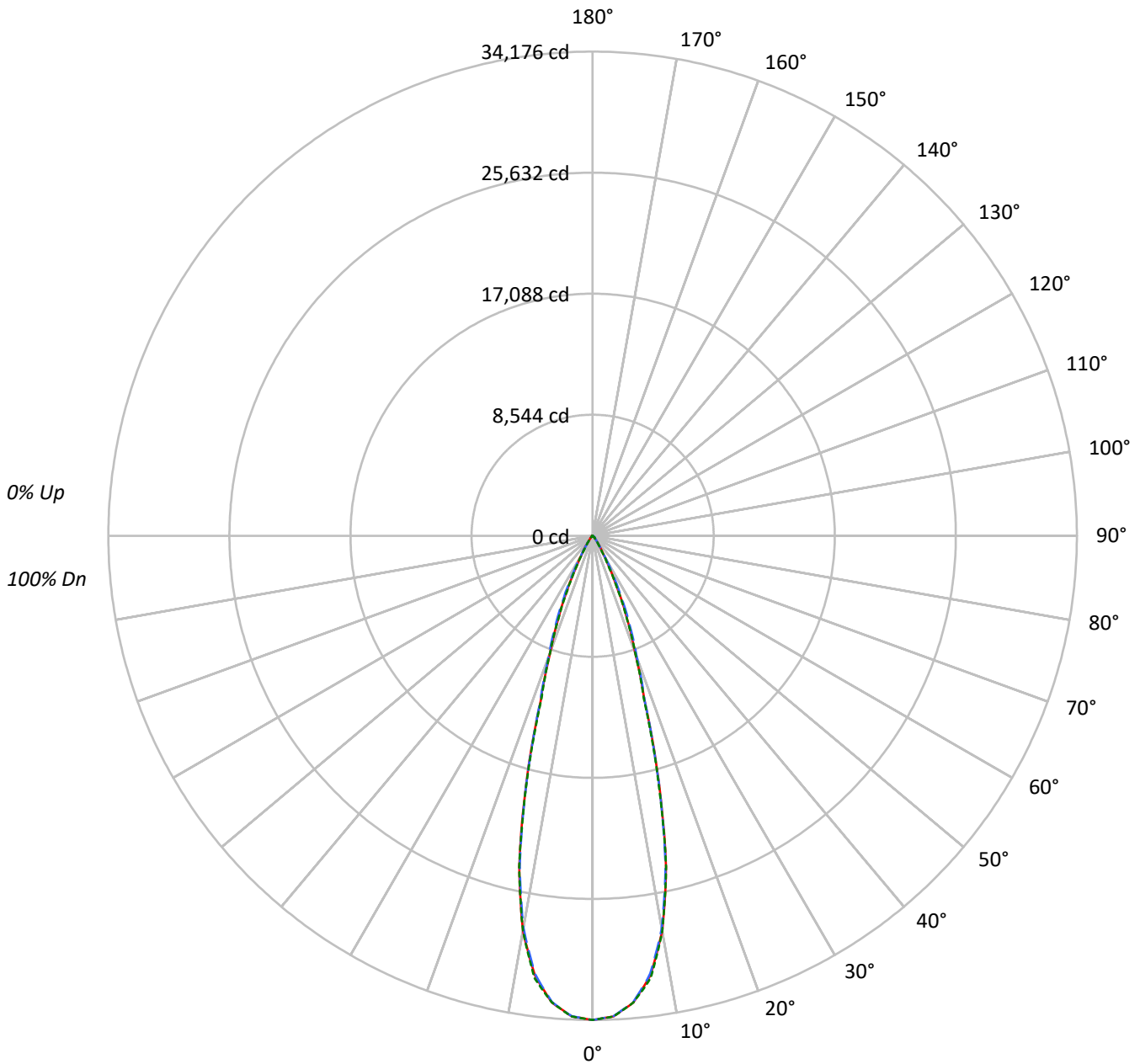
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2615932	2615932	2615932
5°	2540836	2537870	2540967
10°	2200753	2185231	2200224
15°	1435877	1428167	1420987
20°	713992	740783	713039
25°	359666	405576	352293
30°	144005	156901	125462
35°	66793	63971	53617
40°	28837	32024	27158
45°	20340	25244	20524
50°	6990	18386	7395
55°	4030	7607	4257
60°	2832	3337	2832
65°	1829	1829	1829
70°	1119	761	1119
75°	0	503	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 25244 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3005.2	28.3
10°-20°	4840.0	45.5
20°-30°	2091.5	19.7
30°-40°	476.7	4.5
40°-50°	163.7	1.5
50°-60°	40.0	0.4
60°-70°	10.4	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°	9936.7	93.5
0°-40°	10413.4	98.0
0°-60°	10617.0	99.9
0°-90°	10628.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10628.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34176	34176	34176	34176	34176	
5°	33068	33036	33030	33099	33070	3008
15°	18120	17902	18022	17964	17932	4852
25°	4259	4420	4802	4307	4171	2038
35°	715	730	685	680	574	485
45°	188	233	233	233	190	133
55°	30	32	57	34	32	29
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°	34175.8	34175.8	34175.8	34175.8	34175.8
2.5°	33949.3	33925.8	33939.2	33956.0	33962.7
5°	33068.4	33036.5	33029.8	33098.6	33070.1
7.5°	31291.5	31246.2	31177.4	31333.4	31479.4
10°	28314.9	28264.5	28115.2	28189.0	28308.1
12.5°	23920.4	23757.6	23754.3	23989.2	23957.3
15°	18119.8	17901.7	18022.5	17963.8	17931.9
17.5°	12185.0	12101.1	12262.2	12213.6	12003.8
20°	8765.4	8787.3	9094.3	8939.9	8753.7
22.5°	6396.2	6475.1	6839.2	6441.5	6295.5
25°	4258.6	4419.6	4802.2	4307.2	4171.3
27.5°	2619.2	2693.1	3080.7	2585.7	2511.8
30°	1629.3	1592.3	1775.2	1523.5	1419.5
32.5°	1068.8	1021.9	1080.6	969.8	885.9
35°	714.8	729.9	684.6	679.6	573.8
37.5°	446.3	513.4	453.0	483.2	369.1
40°	288.6	372.5	320.5	354.0	271.8
42.5°	236.6	286.9	263.4	280.2	241.6
45°	187.9	233.2	233.2	233.2	189.6
47.5°	104.0	156.0	199.7	159.4	110.7
50°	58.7	78.9	154.4	82.2	62.1
52.5°	40.3	45.3	105.7	47.0	41.9
55°	30.2	31.9	57.0	33.6	31.9
57.5°	23.5	25.2	30.2	25.2	23.5
60°	18.5	18.5	21.8	20.1	18.5
62.5°	13.4	13.4	15.1	13.4	13.4
65°	10.1	10.1	10.1	10.1	10.1
67.5°	5.0	6.7	6.7	6.7	6.7
70°	5.0	3.4	3.4	3.4	5.0
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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