

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



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: P753773

Luminaire Tested: LD4D80BD010-EU4DR3070959024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR3070959024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6703.5 lumens
Efficiency: N/A
Efficacy: 85.0 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): 78.9
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

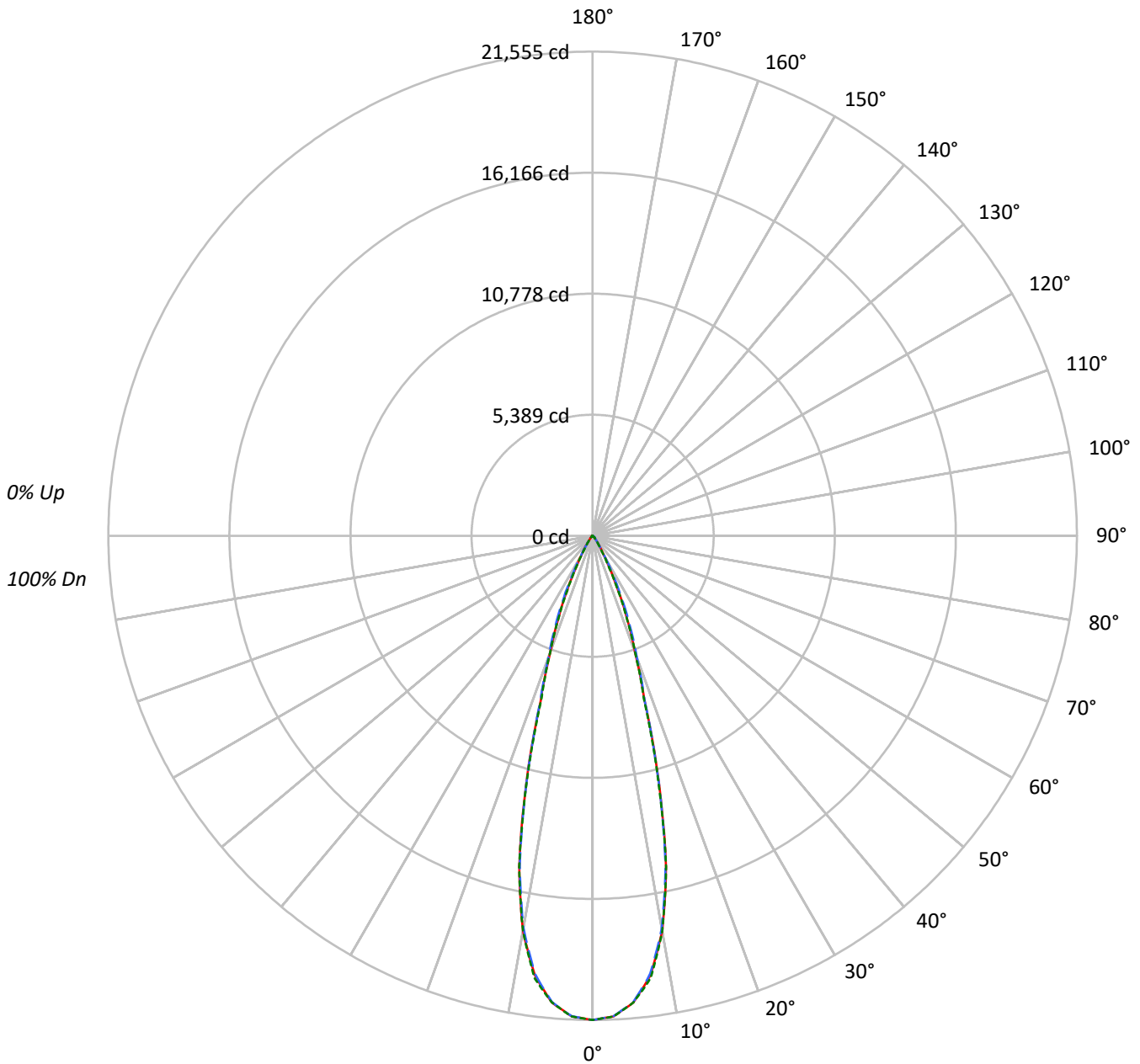


Downlight

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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°	1649885	1649885	1649885
5°	1602525	1600651	1602602
10°	1388030	1378237	1387696
15°	905619	900754	896229
20°	450320	467214	449717
25°	226841	255801	222196
30°	90824	98964	79131
35°	42124	40348	33817
40°	18185	20194	17126
45°	12827	15923	12947
50°	4406	11598	4668
55°	2536	4804	2682
60°	1776	2113	1776
65°	1141	1141	1141
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15923 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1895.4	28.3
10°-20°	3052.6	45.5
20°-30°	1319.1	19.7
30°-40°	300.6	4.5
40°-50°	103.2	1.5
50°-60°	25.2	0.4
60°-70°	6.5	0.1
70°-80°	0.7	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°	6267.1	93.5
0°-40°	6567.8	98.0
0°-60°	6696.2	99.9
0°-90°	6703.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6703.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21555	21555	21555	21555	21555	
5°	20856	20836	20832	20876	20858	1897
15°	11428	11291	11367	11330	11310	3060
25°	2686	2788	3029	2717	2631	1286
35°	451	460	432	429	362	306
45°	118	147	147	147	120	84
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
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°	21554.9	21554.9	21554.9	21554.9	21554.9
2.5°	21412.1	21397.2	21405.7	21416.3	21420.5
5°	20856.5	20836.4	20832.1	20875.5	20857.5
7.5°	19735.8	19707.2	19663.8	19762.2	19854.3
10°	17858.4	17826.6	17732.4	17779.0	17854.1
12.5°	15086.8	14984.1	14982.0	15130.1	15110.0
15°	11428.3	11290.7	11366.9	11329.9	11309.8
17.5°	7685.2	7632.3	7733.9	7703.2	7570.9
20°	5528.4	5542.2	5735.8	5638.5	5521.0
22.5°	4034.1	4083.9	4313.5	4062.7	3970.6
25°	2685.9	2787.5	3028.8	2716.6	2630.9
27.5°	1652.0	1698.5	1943.0	1630.8	1584.2
30°	1027.6	1004.3	1119.7	960.9	895.3
32.5°	674.1	644.5	681.5	611.7	558.8
35°	450.8	460.3	431.8	428.6	361.9
37.5°	281.5	323.8	285.7	304.8	232.8
40°	182.0	234.9	202.1	223.3	171.4
42.5°	149.2	181.0	166.1	176.7	152.4
45°	118.5	147.1	147.1	147.1	119.6
47.5°	65.6	98.4	125.9	100.5	69.8
50°	37.0	49.7	97.4	51.9	39.2
52.5°	25.4	28.6	66.7	29.6	26.5
55°	19.0	20.1	36.0	21.2	20.1
57.5°	14.8	15.9	19.0	15.9	14.8
60°	11.6	11.6	13.8	12.7	11.6
62.5°	8.5	8.5	9.5	8.5	8.5
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.2	4.2	4.2	4.2	4.2
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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