

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: P753775

Luminaire Tested: LD4D80BD010-EU4DR3070959024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753775
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-EU4DR3070959024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6372.0 lumens
Efficiency: N/A
Efficacy: 80.8 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

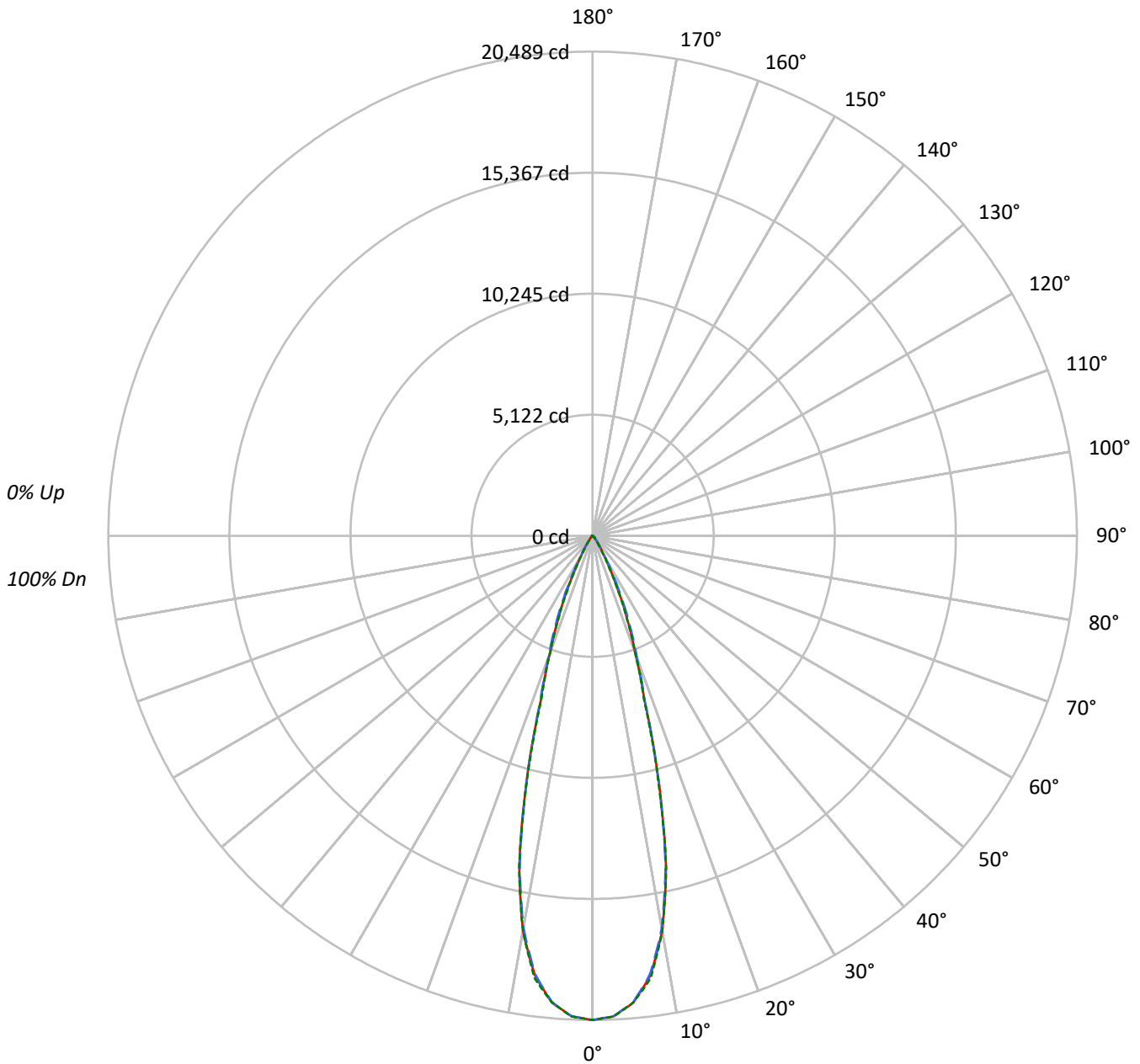


Downlight

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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	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°	1568305	1568305	1568305
5°	1523277	1521502	1523362
10°	1319392	1310088	1319081
15°	860839	856211	851908
20°	428058	444113	427480
25°	215625	243150	211208
30°	86334	94068	75215
35°	40040	38349	32144
40°	17286	19195	16287
45°	12200	15133	12308
50°	4192	11015	4430
55°	2415	4564	2549
60°	1699	2005	1699
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15133 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1801.7	28.3
10°-20°	2901.7	45.5
20°-30°	1253.9	19.7
30°-40°	285.8	4.5
40°-50°	98.1	1.5
50°-60°	24.0	0.4
60°-70°	6.2	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°	5957.2	93.5
0°-40°	6243.0	98.0
0°-60°	6365.1	99.9
0°-90°	6372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20489	20489	20489	20489	20489	
5°	19825	19806	19802	19843	19826	1803
15°	10863	10732	10805	10770	10750	2909
25°	2553	2650	2879	2582	2501	1222
35°	428	438	410	407	344	291
45°	113	140	140	140	114	80
55°	18	19	34	20	19	18
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°	20489.1	20489.1	20489.1	20489.1	20489.1
2.5°	20353.3	20339.2	20347.2	20357.3	20361.3
5°	19825.1	19806.0	19802.0	19843.3	19826.2
7.5°	18759.9	18732.7	18691.4	18785.0	18872.5
10°	16975.3	16945.1	16855.6	16899.9	16971.3
12.5°	14340.7	14243.2	14241.2	14382.0	14362.9
15°	10863.2	10732.4	10804.8	10769.6	10750.5
17.5°	7305.2	7254.9	7351.4	7322.3	7196.5
20°	5255.1	5268.1	5452.2	5359.7	5248.0
22.5°	3834.7	3881.9	4100.2	3861.8	3774.3
25°	2553.1	2649.7	2879.0	2582.3	2500.8
27.5°	1570.3	1614.5	1846.9	1550.2	1505.9
30°	976.8	954.6	1064.3	913.4	851.0
32.5°	640.8	612.6	647.8	581.4	531.1
35°	428.5	437.6	410.4	407.4	344.0
37.5°	267.6	307.8	271.6	289.7	221.3
40°	173.0	223.3	192.1	212.3	163.0
42.5°	141.8	172.0	157.9	168.0	144.9
45°	112.7	139.8	139.8	139.8	113.7
47.5°	62.4	93.6	119.7	95.6	66.4
50°	35.2	47.3	92.5	49.3	37.2
52.5°	24.1	27.2	63.4	28.2	25.1
55°	18.1	19.1	34.2	20.1	19.1
57.5°	14.1	15.1	18.1	15.1	14.1
60°	11.1	11.1	13.1	12.1	11.1
62.5°	8.0	8.0	9.1	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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