

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: P744138

Luminaire Tested: LD4D20D010-EU4DR3020359035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744138
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: LD4D20D010-EU4DR3020359035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1695.7 lumens
Efficiency: N/A
Efficacy: 73.4 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): 23.1
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

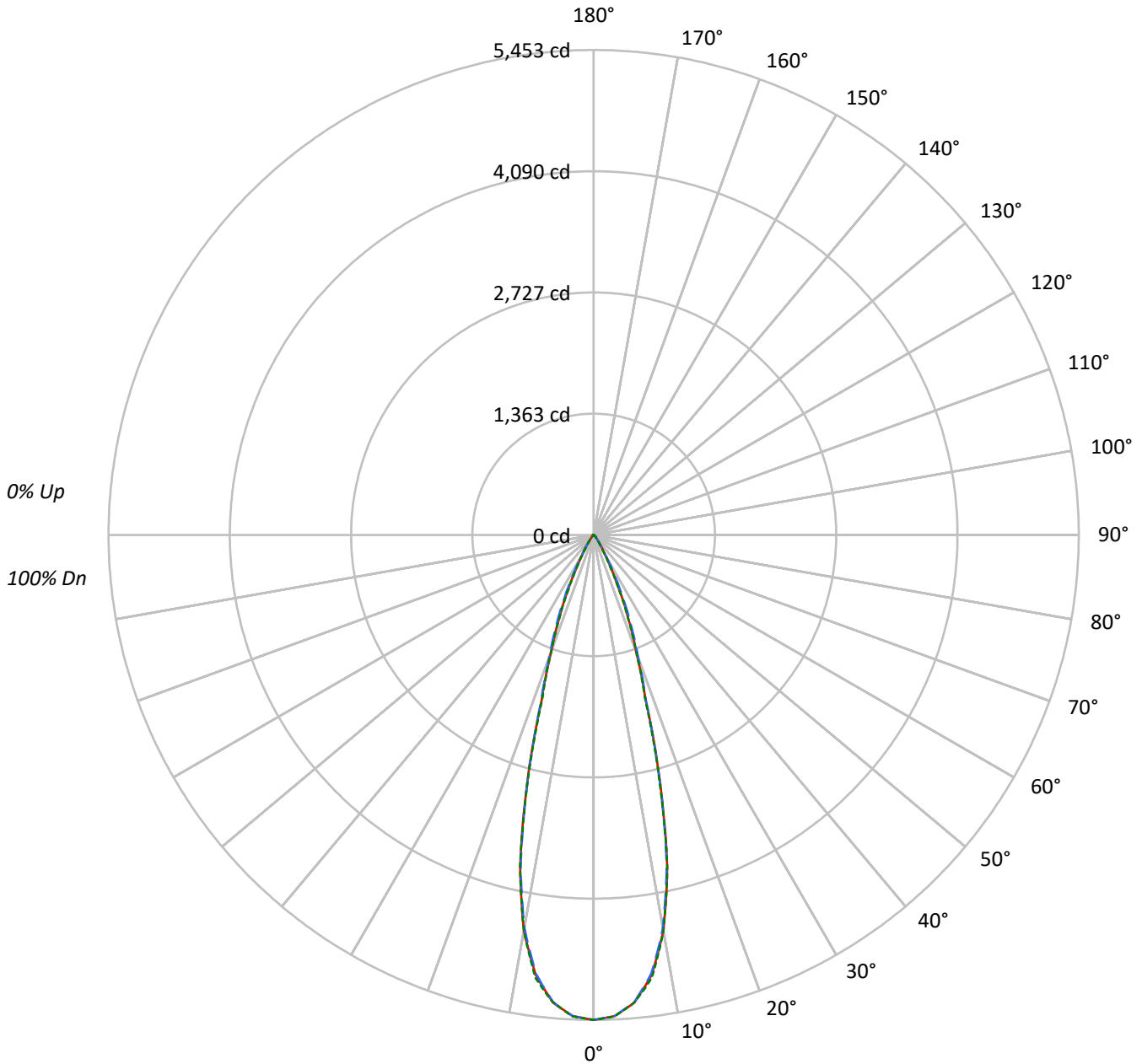


Downlight



TEST NUMBER: P744138
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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°	417368	417368	417368
5°	405386	404909	405401
10°	351119	348647	351041
15°	229085	227857	226716
20°	113916	118184	113761
25°	57388	64702	56206
30°	22971	25031	20019
35°	10652	10204	8559
40°	4606	5106	4337
45°	3247	4027	3280
50°	1119	2929	1179
55°	641	1214	681
60°	444	536	444
65°	290	290	290
70°	179	112	179
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4027 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.5	28.3
10°-20°	772.2	45.5
20°-30°	333.7	19.7
30°-40°	76.0	4.5
40°-50°	26.1	1.5
50°-60°	6.4	0.4
60°-70°	1.6	0.1
70°-80°	0.2	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°	1585.4	93.5
0°-40°	1661.4	98.0
0°-60°	1693.9	99.9
0°-90°	1695.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1695.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5453	5453	5453	5453	5453	
5°	5276	5271	5270	5281	5276	480
15°	2891	2856	2875	2866	2861	774
25°	680	705	766	687	666	325
35°	114	116	109	108	92	77
45°	30	37	37	37	30	21
55°	5	5	9	5	5	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5452.7	5452.7	5452.7	5452.7	5452.7
2.5°	5416.5	5412.7	5414.9	5417.6	5418.6
5°	5276.0	5270.9	5269.8	5280.8	5276.2
7.5°	4992.5	4985.2	4974.2	4999.2	5022.4
10°	4517.5	4509.5	4485.7	4497.4	4516.5
12.5°	3816.4	3790.5	3789.9	3827.4	3822.3
15°	2890.9	2856.2	2875.4	2866.1	2861.0
17.5°	1944.1	1930.7	1956.4	1948.6	1915.1
20°	1398.5	1402.0	1450.9	1426.4	1396.6
22.5°	1020.5	1033.1	1091.2	1027.7	1004.4
25°	679.5	705.1	766.1	687.2	665.5
27.5°	417.9	429.7	491.5	412.5	400.8
30°	259.9	254.0	283.2	243.1	226.5
32.5°	170.5	163.0	172.4	154.8	141.3
35°	114.0	116.4	109.2	108.4	91.6
37.5°	71.2	81.9	72.3	77.1	58.9
40°	46.1	59.4	51.1	56.5	43.4
42.5°	37.8	45.8	42.1	44.7	38.6
45°	30.0	37.2	37.2	37.2	30.3
47.5°	16.6	24.9	31.9	25.4	17.6
50°	9.4	12.6	24.6	13.1	9.9
52.5°	6.4	7.2	16.8	7.5	6.7
55°	4.8	5.1	9.1	5.3	5.1
57.5°	3.7	4.0	4.8	4.0	3.7
60°	2.9	2.9	3.5	3.2	2.9
62.5°	2.1	2.1	2.4	2.1	2.1
65°	1.6	1.6	1.6	1.6	1.6
67.5°	0.8	1.1	1.1	1.1	1.1
70°	0.8	0.5	0.5	0.5	0.8
72.5°	0.5	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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