

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: P748350

Luminaire Tested: LD4D45BD010-EU4DR3040509035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748350
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: LD4D45BD010-EU4DR3040509035-4LBDP1MW
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: 3627.5 lumens
Efficiency: N/A
Efficacy: 93.7 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

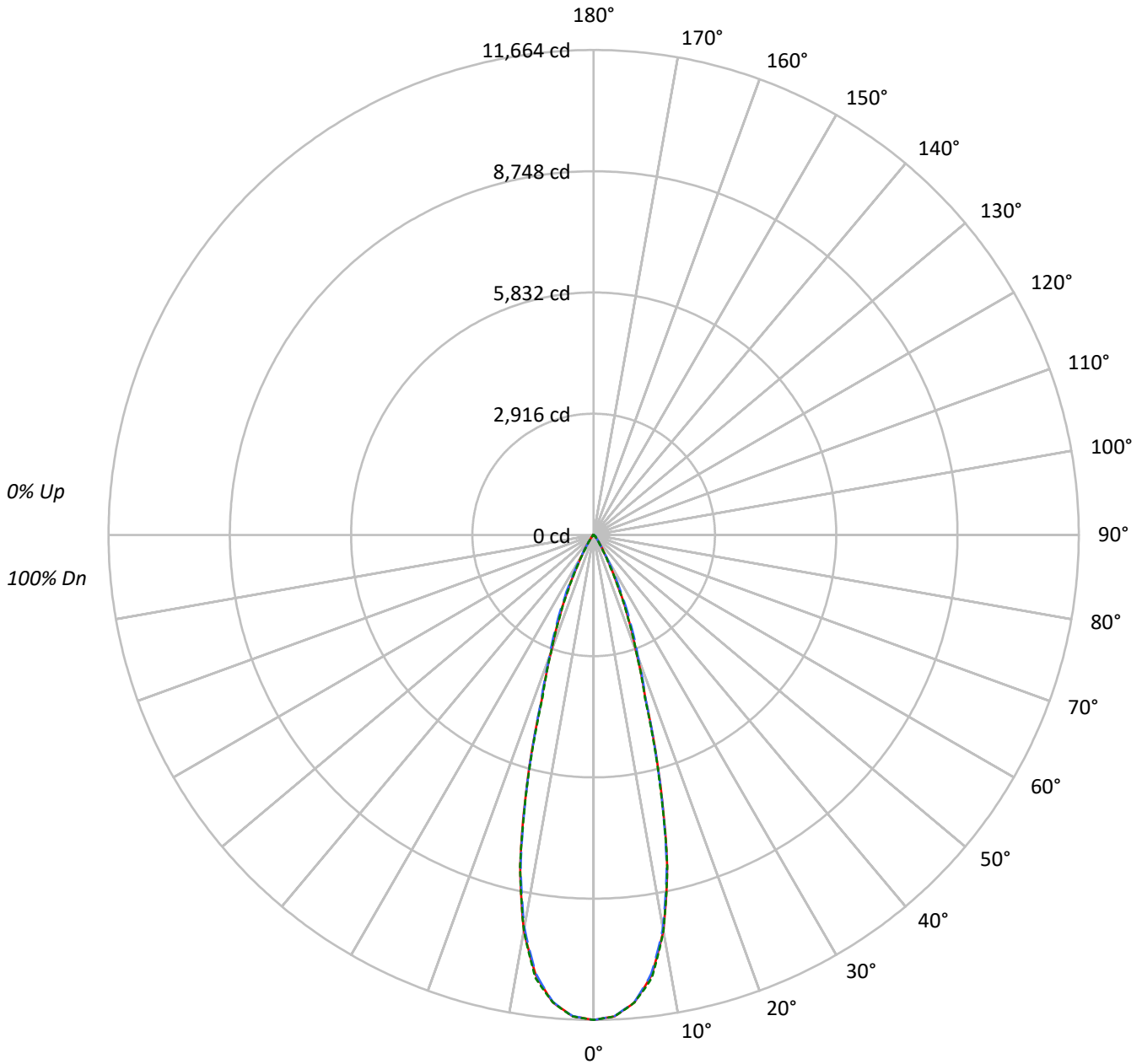
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	892817	892817	892817
5°	867192	866177	867230
10°	751119	745818	750940
15°	490066	487435	484986
20°	243683	252831	243357
25°	122749	138424	120240
30°	49151	53552	42822
35°	22800	21837	18305
40°	9842	10931	9273
45°	6939	8617	7004
50°	2382	6276	2525
55°	1375	2602	1455
60°	964	1133	964
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8617 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1025.7	28.3
10°-20°	1651.9	45.5
20°-30°	713.8	19.7
30°-40°	162.7	4.5
40°-50°	55.9	1.5
50°-60°	13.7	0.4
60°-70°	3.5	0.1
70°-80°	0.4	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°	3391.4	93.5
0°-40°	3554.1	98.0
0°-60°	3623.6	99.9
0°-90°	3627.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3627.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11664	11664	11664	11664	11664	
5°	11286	11275	11273	11297	11287	1027
15°	6184	6110	6151	6131	6120	1656
25°	1453	1508	1639	1470	1424	696
35°	244	249	234	232	196	165
45°	64	80	80	80	65	46
55°	10	11	20	12	11	10
65°	3	3	3	3	3	3
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°	11664.2	11664.2	11664.2	11664.2	11664.2
2.5°	11586.9	11578.9	11583.5	11589.2	11591.5
5°	11286.3	11275.4	11273.1	11296.6	11286.8
7.5°	10679.8	10664.3	10640.9	10694.1	10743.9
10°	9663.9	9646.7	9595.7	9620.9	9661.6
12.5°	8164.0	8108.5	8107.3	8187.5	8176.6
15°	6184.3	6109.9	6151.1	6131.0	6120.2
17.5°	4158.8	4130.1	4185.1	4168.5	4096.9
20°	2991.6	2999.1	3103.9	3051.2	2987.6
22.5°	2183.0	2209.9	2334.2	2198.5	2148.7
25°	1453.4	1508.4	1639.0	1470.1	1423.7
27.5°	893.9	919.1	1051.4	882.5	857.3
30°	556.1	543.5	605.9	520.0	484.5
32.5°	364.8	348.8	368.8	331.0	302.4
35°	244.0	249.1	233.7	231.9	195.9
37.5°	152.3	175.2	154.6	164.9	126.0
40°	98.5	127.1	109.4	120.8	92.8
42.5°	80.7	97.9	89.9	95.6	82.5
45°	64.1	79.6	79.6	79.6	64.7
47.5°	35.5	53.3	68.1	54.4	37.8
50°	20.0	26.9	52.7	28.1	21.2
52.5°	13.7	15.5	36.1	16.0	14.3
55°	10.3	10.9	19.5	11.5	10.9
57.5°	8.0	8.6	10.3	8.6	8.0
60°	6.3	6.3	7.4	6.9	6.3
62.5°	4.6	4.6	5.2	4.6	4.6
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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