

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: P749005

Luminaire Tested: LD4D45BD010-EU4DR7040509050-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR7040509050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

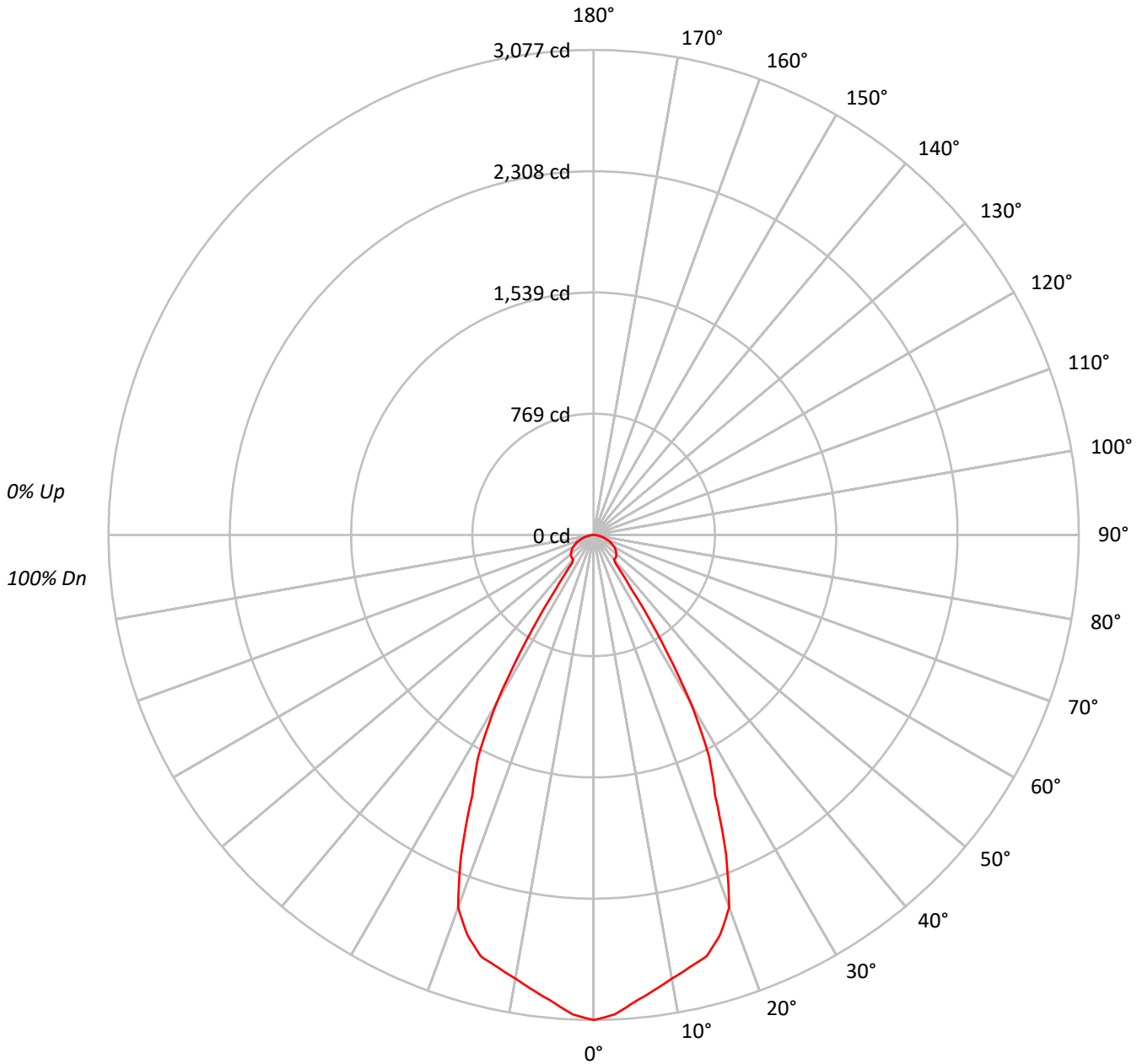
Lumens per Lamp: N/A
Luminaire Lumens: 2737.2 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): 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



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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	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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																											
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																											
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																											
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																											
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																											
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																											
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																											
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																											
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																											
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	336239
5°	326249
10°	317162
15°	313001
20°	292275
25°	219568
30°	155219
35°	54980
40°	28911
45°	30795
50°	31888
55°	32479
60°	32691
65°	32006
70°	30189
75°	27989
80°	24854
85°	20183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 32699 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	10.3
10°-20°	769.6	28.1
20°-30°	847.6	31.0
30°-40°	323.9	11.8
40°-50°	152.9	5.6
50°-60°	152.0	5.6
60°-70°	121.7	4.4
70°-80°	70.0	2.6
80°-90°	19.0	0.7
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°	1897.8	69.3
0°-40°	2221.6	81.2
0°-60°	2526.6	92.3
0°-90°	2737.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3077	
5°	2975	281
15°	2767	770
25°	1821	848
35°	412	324
45°	199	153
55°	170	152
65°	124	122
75°	66	70
85°	16	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3077.4
2.5°	3045.3
5°	2974.6
7.5°	2915.7
10°	2858.7
12.5°	2810.4
15°	2767.1
17.5°	2662.3
20°	2513.7
22.5°	2193.1
25°	1821.3
27.5°	1585.5
30°	1230.3
32.5°	794.7
35°	412.2
37.5°	222.7
40°	202.7
42.5°	201.2
45°	199.3
47.5°	194.9
50°	187.6
52.5°	179.3
55°	170.5
57.5°	160.8
60°	149.6
62.5°	136.9
65°	123.8
67.5°	109.1
70°	94.5
72.5°	79.9
75°	66.3
77.5°	52.1
80°	39.5
82.5°	27.8
85°	16.1
87.5°	6.3
90°	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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