

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: P748980

Luminaire Tested: LD4D45BD010-EU4DR7040509035-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748980
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-EU4DR7040509035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

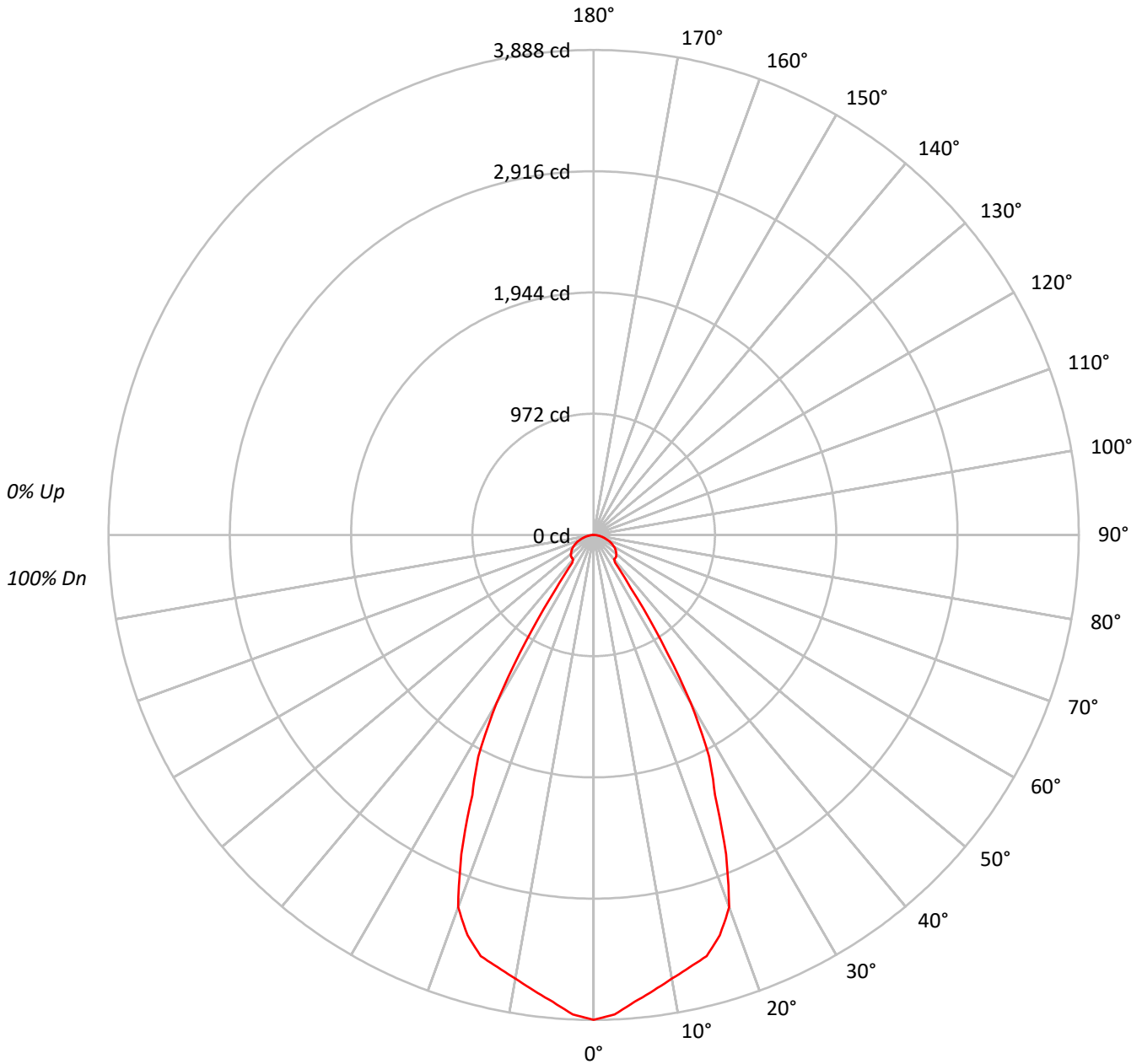
Lumens per Lamp: N/A
Luminaire Lumens: 3458.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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				20				
RC	80				70				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			100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			70
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			65
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			53
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			50
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	424784
5°	412159
10°	400671
15°	395416
20°	369236
25°	277387
30°	196096
35°	69466
40°	36527
45°	38908
50°	40285
55°	41032
60°	41301
65°	40409
70°	38143
75°	35334
80°	31397
85°	25449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 41301 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.4	10.3
10°-20°	972.2	28.1
20°-30°	1070.8	31.0
30°-40°	409.1	11.8
40°-50°	193.2	5.6
50°-60°	192.0	5.6
60°-70°	153.8	4.4
70°-80°	88.4	2.6
80°-90°	24.0	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°	2397.5	69.3
0°-40°	2806.6	81.2
0°-60°	3191.9	92.3
0°-90°	3458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3458.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3888	
5°	3758	354
15°	3496	972
25°	2301	1071
35°	521	409
45°	252	193
55°	215	192
65°	156	154
75°	84	88
85°	20	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3887.8
2.5°	3847.2
5°	3757.9
7.5°	3683.4
10°	3611.4
12.5°	3550.5
15°	3495.7
17.5°	3363.3
20°	3175.6
22.5°	2770.6
25°	2300.9
27.5°	2003.0
30°	1554.3
32.5°	1004.0
35°	520.8
37.5°	281.3
40°	256.1
42.5°	254.2
45°	251.8
47.5°	246.2
50°	237.0
52.5°	226.5
55°	215.4
57.5°	203.1
60°	189.0
62.5°	173.0
65°	156.3
67.5°	137.9
70°	119.4
72.5°	100.9
75°	83.7
77.5°	65.9
80°	49.9
82.5°	35.1
85°	20.3
87.5°	8.0
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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(END OF REPORT)