

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: P746795

Luminaire Tested: LD4D35BD010-EU4DR3020359035-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746795
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: LD4D35BD010-EU4DR3020359035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

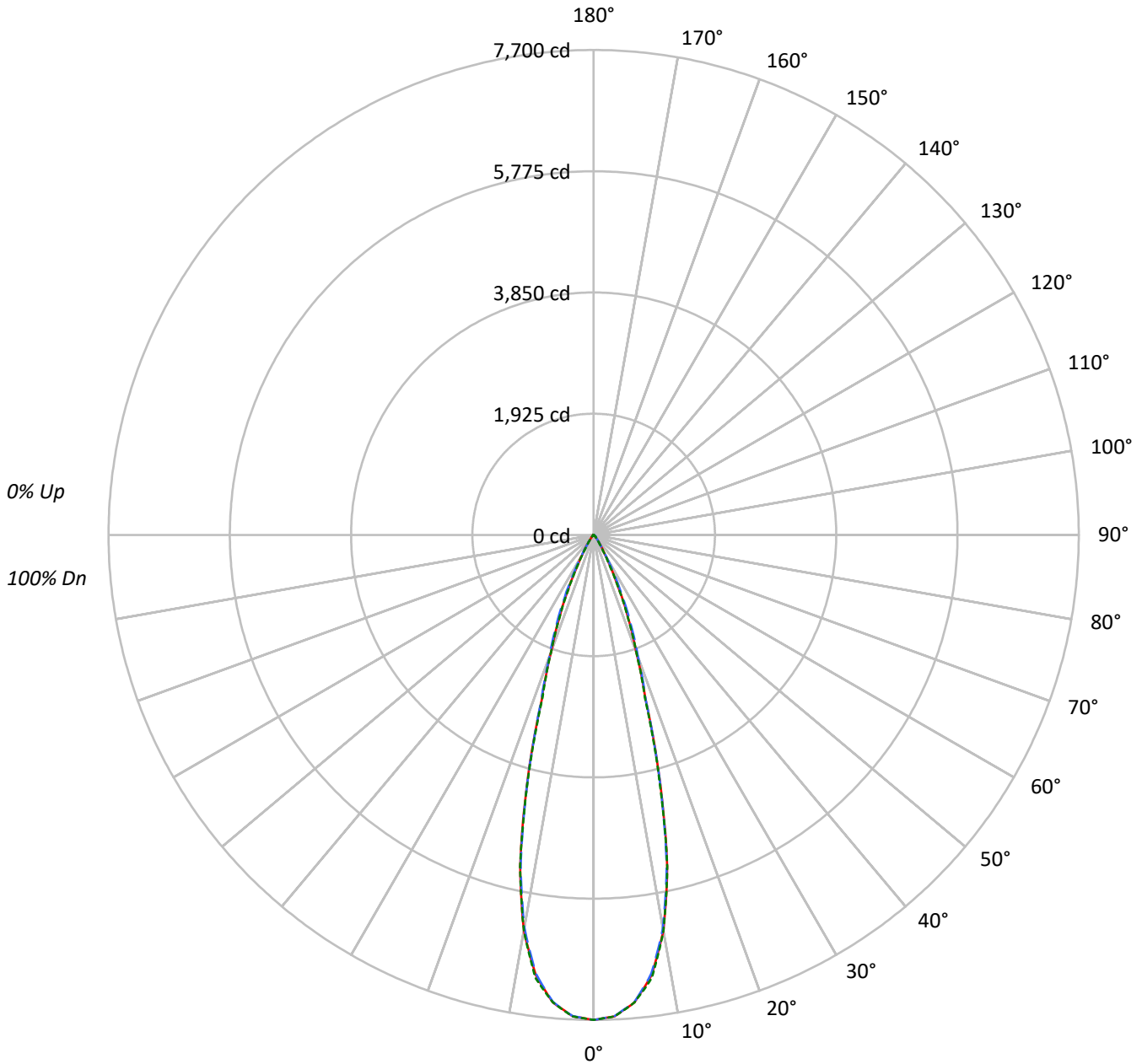
Lumens per Lamp: N/A
Luminaire Lumens: 2394.8 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
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					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								
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°	589399	589399	589399
5°	572480	571812	572511
10°	495857	492359	495740
15°	323520	321784	320168
20°	160875	166911	160655
25°	81036	91382	79372
30°	32446	35354	28265
35°	15054	14409	12082
40°	6495	7214	6115
45°	4579	5683	4622
50°	1572	4144	1667
55°	907	1721	961
60°	643	750	643
65°	417	417	417
70°	246	179	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5683 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.1	28.3
10°-20°	1090.5	45.5
20°-30°	471.2	19.7
30°-40°	107.4	4.5
40°-50°	36.9	1.5
50°-60°	9.0	0.4
60°-70°	2.3	0.1
70°-80°	0.3	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°	2238.9	93.5
0°-40°	2346.3	98.0
0°-60°	2392.2	99.9
0°-90°	2394.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7700	7700	7700	7700	7700	
5°	7451	7444	7442	7458	7451	678
15°	4083	4034	4061	4048	4040	1093
25°	960	996	1082	970	940	459
35°	161	164	154	153	129	109
45°	42	52	52	52	43	30
55°	7	7	13	8	7	7
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7700.2	7700.2	7700.2	7700.2	7700.2
2.5°	7649.2	7643.9	7646.9	7650.7	7652.2
5°	7450.7	7443.5	7442.0	7457.5	7451.1
7.5°	7050.3	7040.1	7024.6	7059.8	7092.7
10°	6379.7	6368.3	6334.7	6351.3	6378.2
12.5°	5389.5	5352.9	5352.1	5405.0	5397.9
15°	4082.6	4033.5	4060.7	4047.5	4040.3
17.5°	2745.4	2726.5	2762.8	2751.9	2704.6
20°	1975.0	1979.9	2049.1	2014.3	1972.3
22.5°	1441.1	1458.9	1541.0	1451.4	1418.5
25°	959.5	995.8	1082.0	970.5	939.8
27.5°	590.1	606.8	694.1	582.6	565.9
30°	367.1	358.8	400.0	343.3	319.8
32.5°	240.8	230.2	243.5	218.5	199.6
35°	161.1	164.5	154.2	153.1	129.3
37.5°	100.6	115.7	102.1	108.9	83.2
40°	65.0	83.9	72.2	79.8	61.2
42.5°	53.3	64.6	59.4	63.1	54.4
45°	42.3	52.5	52.5	52.5	42.7
47.5°	23.4	35.2	45.0	35.9	25.0
50°	13.2	17.8	34.8	18.5	14.0
52.5°	9.1	10.2	23.8	10.6	9.5
55°	6.8	7.2	12.9	7.6	7.2
57.5°	5.3	5.7	6.8	5.7	5.3
60°	4.2	4.2	4.9	4.5	4.2
62.5°	3.0	3.0	3.4	3.0	3.0
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.8	0.8	0.8	1.1
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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