

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: P746782

Luminaire Tested: LD4D35BD010-EU4DR3020359030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746782
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-EU4DR3020359030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2369.7 lumens
Efficiency: N/A
Efficacy: 76.9 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')

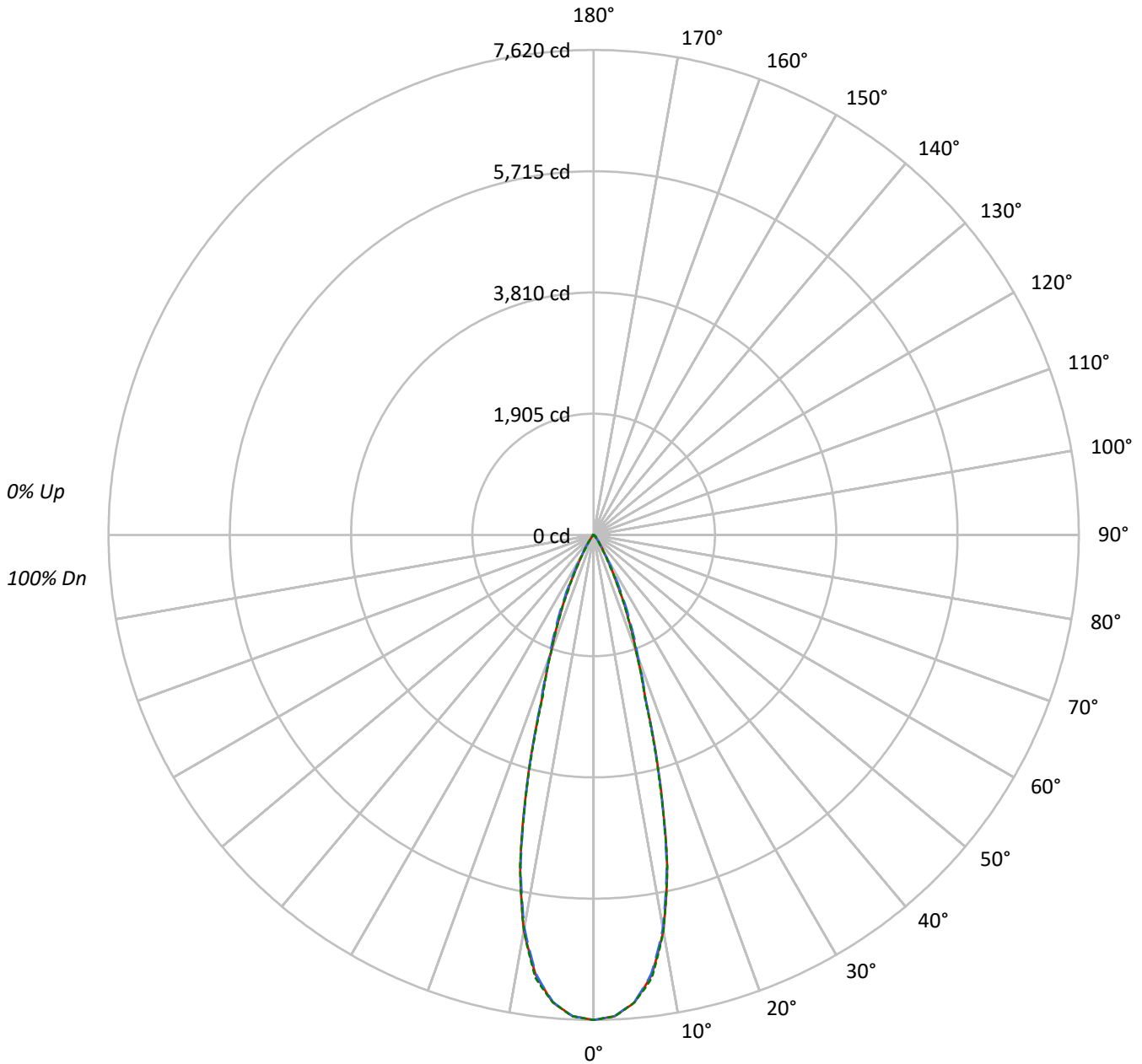
CIE Type: Direct

Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (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



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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	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°	583261	583261	583261
5°	566510	565849	566541
10°	490688	487230	490572
15°	320152	318432	316832
20°	159197	165168	158985
25°	80191	90427	78544
30°	32110	34983	27974
35°	14895	14259	11951
40°	6425	7144	6055
45°	4536	5629	4579
50°	1560	4096	1643
55°	894	1695	947
60°	628	750	628
65°	398	398	398
70°	246	157	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: 5629 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.1	28.3
10°-20°	1079.1	45.5
20°-30°	466.3	19.7
30°-40°	106.3	4.5
40°-50°	36.5	1.5
50°-60°	8.9	0.4
60°-70°	2.3	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°	2215.5	93.5
0°-40°	2321.8	98.0
0°-60°	2367.2	99.9
0°-90°	2369.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2369.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7620	7620	7620	7620	7620	
5°	7373	7366	7364	7380	7373	671
15°	4040	3991	4018	4005	3998	1082
25°	950	985	1071	960	930	454
35°	159	163	153	152	128	108
45°	42	52	52	52	42	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°	7620.0	7620.0	7620.0	7620.0	7620.0
2.5°	7569.4	7564.2	7567.2	7570.9	7572.4
5°	7373.0	7365.9	7364.4	7379.8	7373.4
7.5°	6976.8	6966.7	6951.4	6986.2	7018.7
10°	6313.2	6301.9	6268.7	6285.1	6311.7
12.5°	5333.4	5297.1	5296.3	5348.7	5341.6
15°	4040.1	3991.4	4018.4	4005.3	3998.2
17.5°	2716.8	2698.1	2734.0	2723.2	2676.4
20°	1954.4	1959.2	2027.7	1993.3	1951.8
22.5°	1426.1	1443.7	1524.9	1436.2	1403.7
25°	949.5	985.4	1070.7	960.4	930.0
27.5°	584.0	600.5	686.9	576.5	560.0
30°	363.3	355.0	395.8	339.7	316.5
32.5°	238.3	227.8	240.9	216.2	197.5
35°	159.4	162.7	152.6	151.5	127.9
37.5°	99.5	114.5	101.0	107.7	82.3
40°	64.3	83.1	71.5	78.9	60.6
42.5°	52.8	64.0	58.7	62.5	53.9
45°	41.9	52.0	52.0	52.0	42.3
47.5°	23.2	34.8	44.5	35.5	24.7
50°	13.1	17.6	34.4	18.3	13.8
52.5°	9.0	10.1	23.6	10.5	9.4
55°	6.7	7.1	12.7	7.5	7.1
57.5°	5.2	5.6	6.7	5.6	5.2
60°	4.1	4.1	4.9	4.5	4.1
62.5°	3.0	3.0	3.4	3.0	3.0
65°	2.2	2.2	2.2	2.2	2.2
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	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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