

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: P755349

Luminaire Tested: LD4D90BD010-EU4DR3070959027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755349
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: LD4D90BD010-EU4DR3070959027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

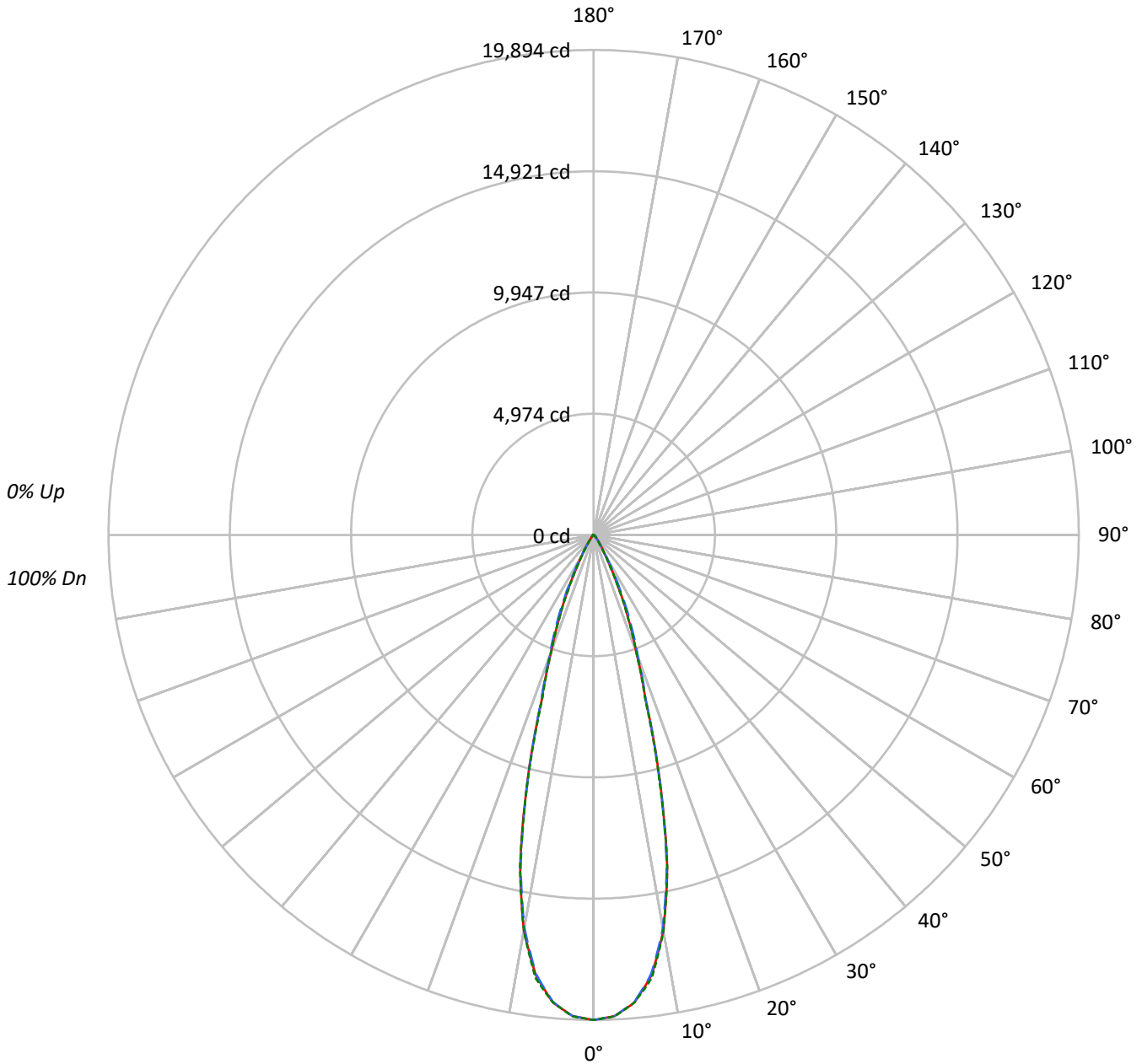
Lumens per Lamp: N/A
Luminaire Lumens: 6186.8 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 98.9
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	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°	1522716	1522716	1522716
5°	1479004	1477275	1479073
10°	1281043	1272003	1280739
15°	835813	831328	827144
20°	415612	431202	415058
25°	209359	236081	205068
30°	83824	91337	73032
35°	38881	37237	31210
40°	16787	18645	15807
45°	11842	14700	11951
50°	4073	10705	4299
55°	2349	4431	2482
60°	1638	1944	1638
65°	1069	1069	1069
70°	649	448	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14700 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1749.3	28.3
10°-20°	2817.3	45.5
20°-30°	1217.4	19.7
30°-40°	277.5	4.5
40°-50°	95.3	1.5
50°-60°	23.3	0.4
60°-70°	6.0	0.1
70°-80°	0.6	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°	5784.1	93.5
0°-40°	6061.6	98.0
0°-60°	6180.1	99.9
0°-90°	6186.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6186.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19894	19894	19894	19894	19894	
5°	19249	19230	19226	19266	19250	1751
15°	10547	10420	10491	10457	10438	2824
25°	2479	2573	2795	2507	2428	1187
35°	416	425	398	396	334	282
45°	109	136	136	136	110	78
55°	18	19	33	20	19	17
65°	6	6	6	6	6	6
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°	19893.5	19893.5	19893.5	19893.5	19893.5
2.5°	19761.6	19748.0	19755.8	19765.5	19769.4
5°	19248.9	19230.3	19226.4	19266.4	19249.8
7.5°	18214.5	18188.2	18148.1	18239.0	18323.9
10°	16481.9	16452.6	16365.6	16408.6	16478.0
12.5°	13923.9	13829.1	13827.2	13963.9	13945.4
15°	10547.4	10420.4	10490.8	10456.6	10438.0
17.5°	7092.8	7044.0	7137.7	7109.4	6987.3
20°	5102.3	5115.0	5293.7	5203.9	5095.5
22.5°	3723.2	3769.1	3981.0	3749.6	3664.6
25°	2478.9	2572.6	2795.3	2507.2	2428.1
27.5°	1524.6	1567.6	1793.2	1505.1	1462.1
30°	948.4	926.9	1033.4	886.8	826.3
32.5°	622.2	594.8	629.0	564.5	515.7
35°	416.1	424.9	398.5	395.6	334.0
37.5°	259.8	298.9	263.7	281.3	214.9
40°	168.0	216.8	186.6	206.1	158.2
42.5°	137.7	167.0	153.3	163.1	140.6
45°	109.4	135.8	135.8	135.8	110.4
47.5°	60.6	90.8	116.2	92.8	64.5
50°	34.2	45.9	89.9	47.9	36.1
52.5°	23.4	26.4	61.5	27.3	24.4
55°	17.6	18.6	33.2	19.5	18.6
57.5°	13.7	14.7	17.6	14.7	13.7
60°	10.7	10.7	12.7	11.7	10.7
62.5°	7.8	7.8	8.8	7.8	7.8
65°	5.9	5.9	5.9	5.9	5.9
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	2.0	2.0	2.0	2.9
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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