

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: P755362

Luminaire Tested: LD4D90BD010-EU4DR3070959030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755362
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-EU4DR3070959030-4LBSQW1B
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

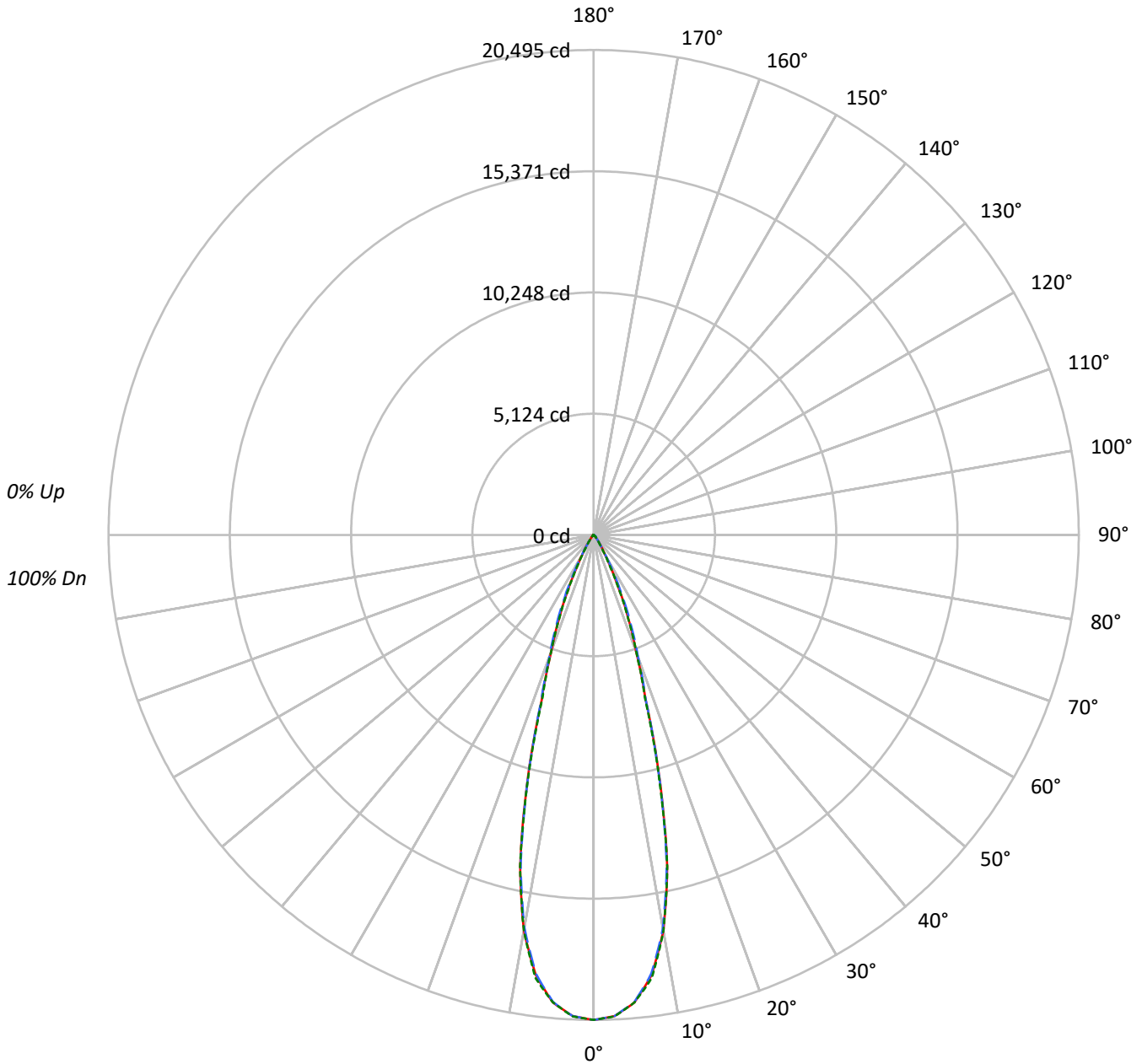
Lumens per Lamp: N/A
Luminaire Lumens: 6373.7 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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					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°	1568734	1568734	1568734
5°	1523700	1521917	1523776
10°	1319749	1310446	1319438
15°	861076	856448	852146
20°	428172	444235	427594
25°	215684	243217	211267
30°	86352	94094	75242
35°	40049	38358	32153
40°	17296	19205	16287
45°	12200	15144	12308
50°	4192	11027	4430
55°	2415	4564	2549
60°	1699	2005	1699
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15144 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1802.2	28.3
10°-20°	2902.5	45.5
20°-30°	1254.2	19.7
30°-40°	285.9	4.5
40°-50°	98.2	1.5
50°-60°	24.0	0.4
60°-70°	6.2	0.1
70°-80°	0.7	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°	5958.9	93.5
0°-40°	6244.7	98.0
0°-60°	6366.9	99.9
0°-90°	6373.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6373.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20495	20495	20495	20495	20495	
5°	19831	19811	19807	19849	19832	1804
15°	10866	10735	10808	10773	10754	2910
25°	2554	2650	2880	2583	2502	1222
35°	429	438	410	408	344	291
45°	113	140	140	140	114	80
55°	18	19	34	20	19	18
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°	20494.7	20494.7	20494.7	20494.7	20494.7
2.5°	20358.8	20344.7	20352.8	20362.9	20366.9
5°	19830.6	19811.4	19807.4	19848.7	19831.6
7.5°	18765.0	18737.8	18696.6	18790.1	18877.7
10°	16979.9	16949.8	16860.2	16904.5	16975.9
12.5°	14344.7	14247.1	14245.0	14385.9	14366.8
15°	10866.2	10735.3	10807.8	10772.6	10753.5
17.5°	7307.2	7256.9	7353.4	7324.3	7198.5
20°	5256.5	5269.6	5453.7	5361.1	5249.4
22.5°	3835.7	3883.0	4101.3	3862.9	3775.3
25°	2553.8	2650.4	2879.8	2583.0	2501.5
27.5°	1570.7	1615.0	1847.4	1550.6	1506.3
30°	977.0	954.9	1064.6	913.6	851.3
32.5°	641.0	612.8	648.0	581.6	531.3
35°	428.6	437.7	410.5	407.5	344.1
37.5°	267.7	307.9	271.7	289.8	221.4
40°	173.1	223.4	192.2	212.3	163.0
42.5°	141.9	172.1	158.0	168.0	144.9
45°	112.7	139.9	139.9	139.9	113.7
47.5°	62.4	93.6	119.7	95.6	66.4
50°	35.2	47.3	92.6	49.3	37.2
52.5°	24.1	27.2	63.4	28.2	25.2
55°	18.1	19.1	34.2	20.1	19.1
57.5°	14.1	15.1	18.1	15.1	14.1
60°	11.1	11.1	13.1	12.1	11.1
62.5°	8.0	8.0	9.1	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
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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