

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: P755401

Luminaire Tested: LD4D90BD010-EU4DR3070959050-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755401
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-EU4DR3070959050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

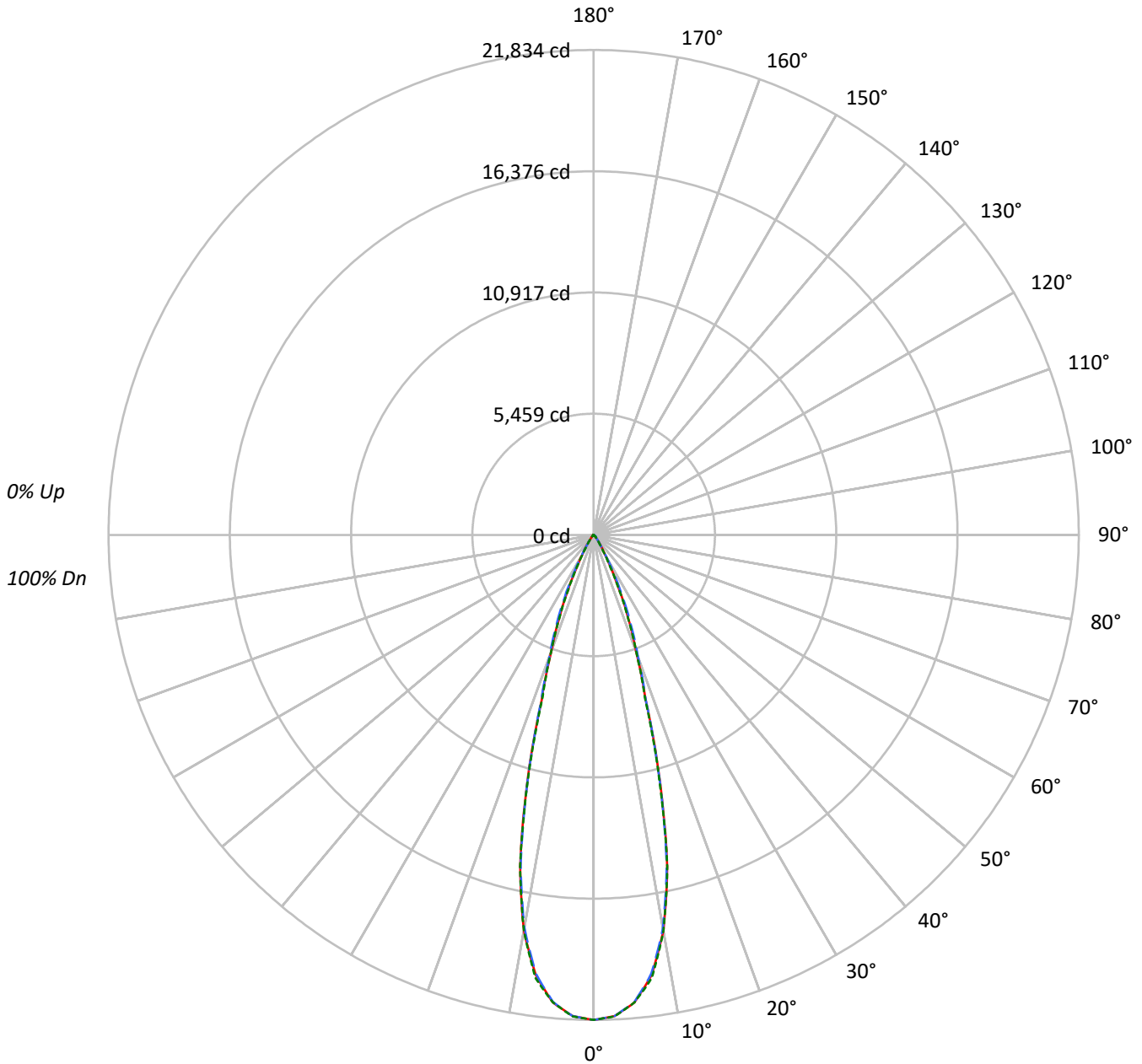
Lumens per Lamp: N/A
Luminaire Lumens: 6790.1 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	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°	1671226	1671226	1671226
5°	1623248	1621350	1623325
10°	1405976	1396059	1405642
15°	917331	912402	907814
20°	456144	473258	455533
25°	229772	259103	225068
30°	92000	100237	80156
35°	42675	40872	34256
40°	18425	20454	17356
45°	13001	16129	13109
50°	4466	11741	4727
55°	2576	4858	2722
60°	1806	2128	1806
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16129 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1919.9	28.3
10°-20°	3092.1	45.5
20°-30°	1336.2	19.7
30°-40°	304.5	4.5
40°-50°	104.6	1.5
50°-60°	25.5	0.4
60°-70°	6.6	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°	6348.2	93.5
0°-40°	6652.7	98.0
0°-60°	6782.8	99.9
0°-90°	6790.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6790.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21834	21834	21834	21834	21834	
5°	21126	21106	21102	21146	21127	1922
15°	11576	11437	11514	11476	11456	3100
25°	2721	2824	3068	2752	2665	1302
35°	457	466	437	434	367	310
45°	120	149	149	149	121	85
55°	19	20	36	21	20	19
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°	21833.7	21833.7	21833.7	21833.7	21833.7
2.5°	21688.9	21673.9	21682.5	21693.2	21697.5
5°	21126.2	21105.8	21101.5	21145.5	21127.2
7.5°	19991.0	19962.0	19918.1	20017.8	20111.0
10°	18089.3	18057.1	17961.7	18008.9	18085.0
12.5°	15281.8	15177.9	15175.7	15325.8	15305.4
15°	11576.1	11436.7	11513.9	11476.4	11456.0
17.5°	7784.6	7731.0	7833.9	7802.8	7668.8
20°	5599.9	5613.8	5810.0	5711.4	5592.4
22.5°	4086.3	4136.7	4369.3	4115.2	4022.0
25°	2720.6	2823.5	3067.9	2751.7	2664.9
27.5°	1673.3	1720.5	1968.1	1651.9	1604.7
30°	1040.9	1017.3	1134.1	973.3	906.9
32.5°	682.8	652.8	690.3	619.6	566.0
35°	456.7	466.3	437.4	434.1	366.6
37.5°	285.1	328.0	289.4	308.7	235.8
40°	184.4	238.0	204.7	226.2	173.7
42.5°	151.1	183.3	168.3	179.0	154.4
45°	120.1	149.0	149.0	149.0	121.1
47.5°	66.5	99.7	127.6	101.8	70.7
50°	37.5	50.4	98.6	52.5	39.7
52.5°	25.7	28.9	67.5	30.0	26.8
55°	19.3	20.4	36.4	21.4	20.4
57.5°	15.0	16.1	19.3	16.1	15.0
60°	11.8	11.8	13.9	12.9	11.8
62.5°	8.6	8.6	9.6	8.6	8.6
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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