

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: P753011

Luminaire Tested: LD4D75BD010-EU4DR3070959030-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753011
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: LD4D75BD010-EU4DR3070959030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6393.1 lumens
Efficiency: N/A
Efficacy: 88.3 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

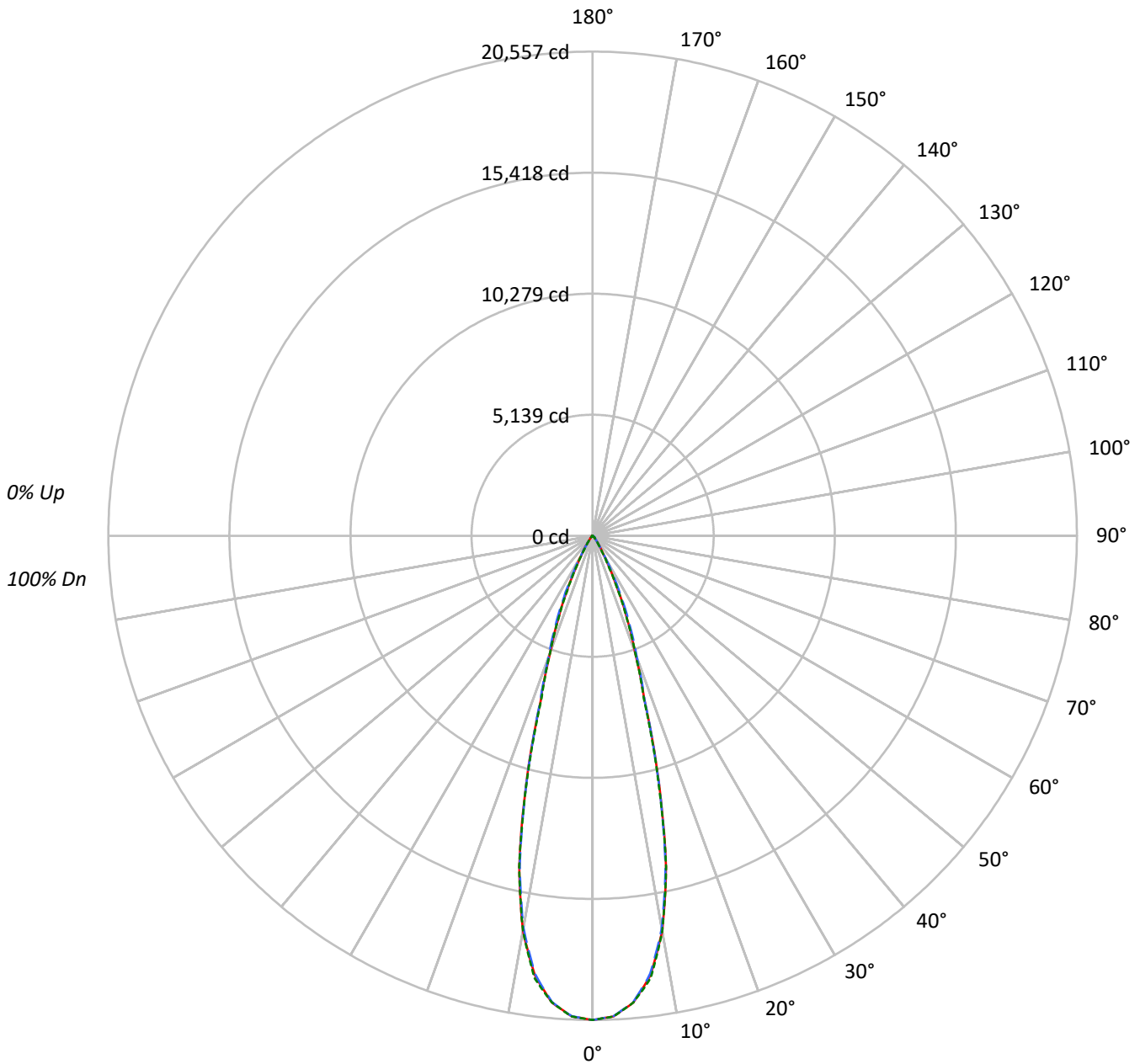
Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1573495	1573495	1573495
5°	1528325	1526543	1528402
10°	1323760	1314425	1323449
15°	863683	859048	854729
20°	429467	445588	428897
25°	216335	243952	211909
30°	86617	94377	75463
35°	40180	38480	32256
40°	17346	19265	16337
45°	12232	15187	12340
50°	4204	11063	4442
55°	2429	4577	2562
60°	1699	2005	1699
65°	1105	1105	1105
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: 15187 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1807.7	28.3
10°-20°	2911.3	45.5
20°-30°	1258.0	19.7
30°-40°	286.7	4.5
40°-50°	98.5	1.5
50°-60°	24.1	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°	5977.0	93.5
0°-40°	6263.7	98.0
0°-60°	6386.2	99.9
0°-90°	6393.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6393.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20557	20557	20557	20557	20557	
5°	19891	19872	19868	19909	19892	1809
15°	10899	10768	10841	10805	10786	2918
25°	2562	2658	2888	2591	2509	1226
35°	430	439	412	409	345	292
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°	20556.9	20556.9	20556.9	20556.9	20556.9
2.5°	20420.6	20406.5	20414.6	20424.7	20428.7
5°	19890.8	19871.6	19867.6	19908.9	19891.8
7.5°	18821.9	18794.7	18753.3	18847.2	18935.0
10°	17031.5	17001.2	16911.4	16955.8	17027.5
12.5°	14388.2	14290.3	14288.3	14429.6	14410.4
15°	10899.1	10767.9	10840.6	10805.3	10786.1
17.5°	7329.3	7278.9	7375.8	7346.5	7220.3
20°	5272.4	5285.6	5470.3	5377.4	5265.4
22.5°	3847.4	3894.8	4113.8	3874.6	3786.8
25°	2561.5	2658.4	2888.5	2590.8	2509.1
27.5°	1575.5	1619.9	1853.0	1555.3	1510.9
30°	980.0	957.8	1067.8	916.4	853.8
32.5°	642.9	614.6	650.0	583.4	532.9
35°	430.0	439.0	411.8	408.8	345.2
37.5°	268.5	308.8	272.5	290.7	222.0
40°	173.6	224.1	192.8	213.0	163.5
42.5°	142.3	172.6	158.5	168.5	145.3
45°	113.0	140.3	140.3	140.3	114.0
47.5°	62.6	93.9	120.1	95.9	66.6
50°	35.3	47.4	92.9	49.5	37.3
52.5°	24.2	27.3	63.6	28.3	25.2
55°	18.2	19.2	34.3	20.2	19.2
57.5°	14.1	15.1	18.2	15.1	14.1
60°	11.1	11.1	13.1	12.1	11.1
62.5°	8.1	8.1	9.1	8.1	8.1
65°	6.1	6.1	6.1	6.1	6.1
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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