

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: P753057

Luminaire Tested: LD4D75BD010-EU4DR3070959050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753057
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-EU4DR3070959050-4LBS1B
Description: 4 INCH ROUND SHALLOW 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: 7360.7 lumens
Efficiency: N/A
Efficacy: 101.7 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

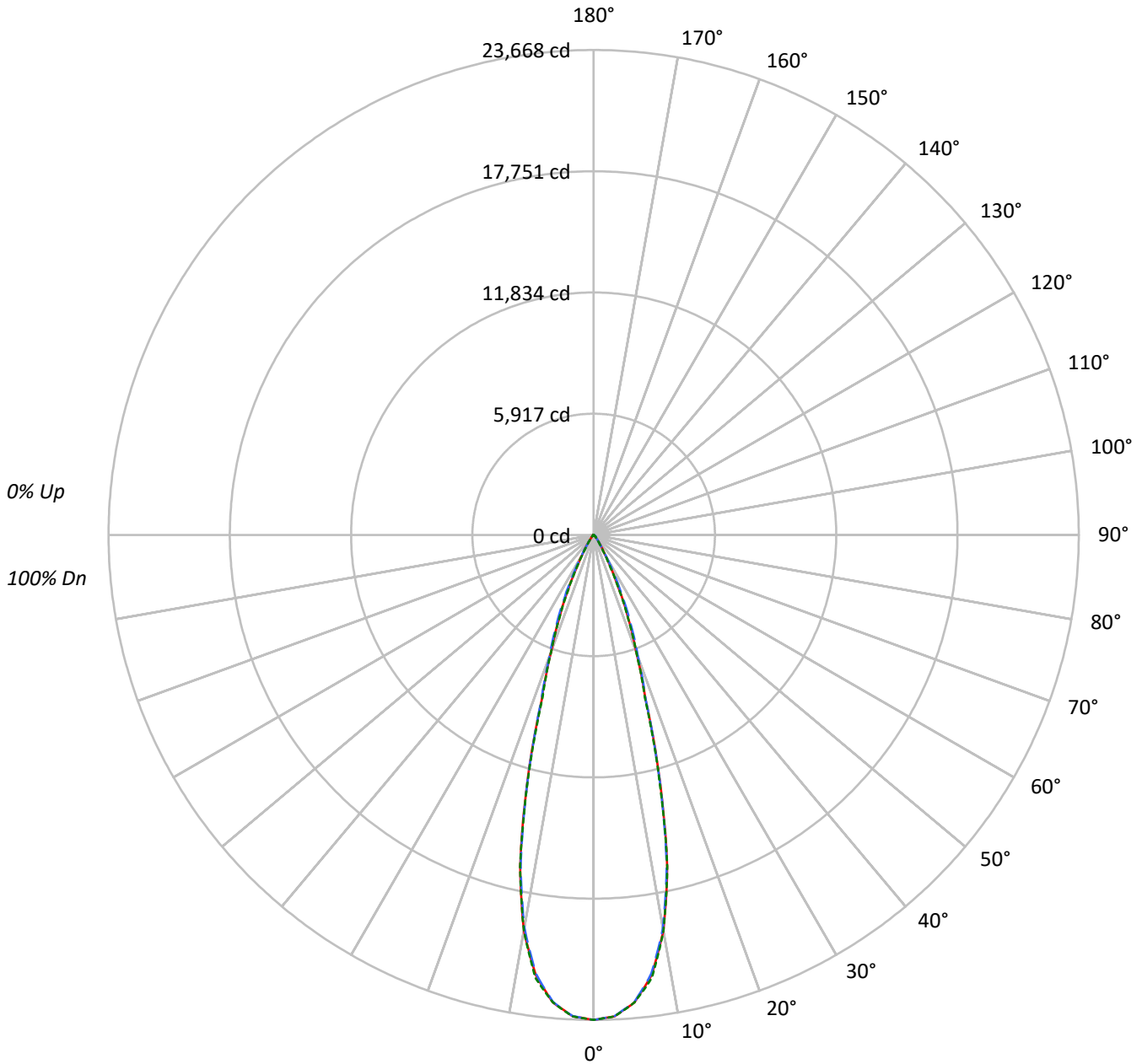
Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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°	1811652	1811652	1811652
5°	1759647	1757595	1759739
10°	1524117	1513376	1523760
15°	994412	989071	984102
20°	494477	513025	493809
25°	249078	280876	243977
30°	99724	108660	86891
35°	46254	44301	37134
40°	19974	22172	18805
45°	14083	17482	14213
50°	4847	12730	5120
55°	2789	5271	2949
60°	1960	2312	1960
65°	1268	1268	1268
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17482 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2081.3	28.3
10°-20°	3351.9	45.5
20°-30°	1448.4	19.7
30°-40°	330.1	4.5
40°-50°	113.3	1.5
50°-60°	27.7	0.4
60°-70°	7.2	0.1
70°-80°	0.8	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°	6881.6	93.5
0°-40°	7211.8	98.0
0°-60°	7352.8	99.9
0°-90°	7360.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7360.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23668	23668	23668	23668	23668	
5°	22901	22879	22875	22922	22903	2083
15°	12549	12398	12481	12441	12419	3360
25°	2949	3061	3326	2983	2889	1412
35°	495	506	474	471	397	336
45°	130	162	162	162	131	92
55°	21	22	40	23	22	20
65°	7	7	7	7	7	7
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°	23668.3	23668.3	23668.3	23668.3	23668.3
2.5°	23511.5	23495.2	23504.5	23516.1	23520.8
5°	22901.4	22879.3	22874.7	22922.3	22902.6
7.5°	21670.8	21639.4	21591.8	21699.9	21800.9
10°	19609.3	19574.5	19471.1	19522.2	19604.7
12.5°	16566.0	16453.3	16450.9	16613.6	16591.5
15°	12548.8	12397.8	12481.4	12440.8	12418.7
17.5°	8438.7	8380.6	8492.2	8458.5	8313.2
20°	6070.5	6085.6	6298.2	6191.3	6062.3
22.5°	4429.7	4484.3	4736.5	4461.1	4360.0
25°	2949.2	3060.8	3325.7	2982.9	2888.8
27.5°	1813.9	1865.1	2133.5	1790.7	1739.6
30°	1128.3	1102.8	1229.4	1055.1	983.1
32.5°	740.2	707.7	748.4	671.7	613.6
35°	495.0	505.5	474.1	470.6	397.4
37.5°	309.1	355.6	313.7	334.7	255.6
40°	199.9	258.0	221.9	245.2	188.2
42.5°	163.8	198.7	182.4	194.1	167.3
45°	130.1	161.5	161.5	161.5	131.3
47.5°	72.0	108.1	138.3	110.4	76.7
50°	40.7	54.6	106.9	56.9	43.0
52.5°	27.9	31.4	73.2	32.5	29.1
55°	20.9	22.1	39.5	23.2	22.1
57.5°	16.3	17.4	20.9	17.4	16.3
60°	12.8	12.8	15.1	13.9	12.8
62.5°	9.3	9.3	10.5	9.3	9.3
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.6	4.6	4.6	4.6
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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