

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: P750717

Luminaire Tested: LD4D60D010-EU4DR3055659050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750717
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: LD4D60D010-EU4DR3055659050-4LBS1B
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: 6177.6 lumens
Efficiency: N/A
Efficacy: 95.9 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): 64.4
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

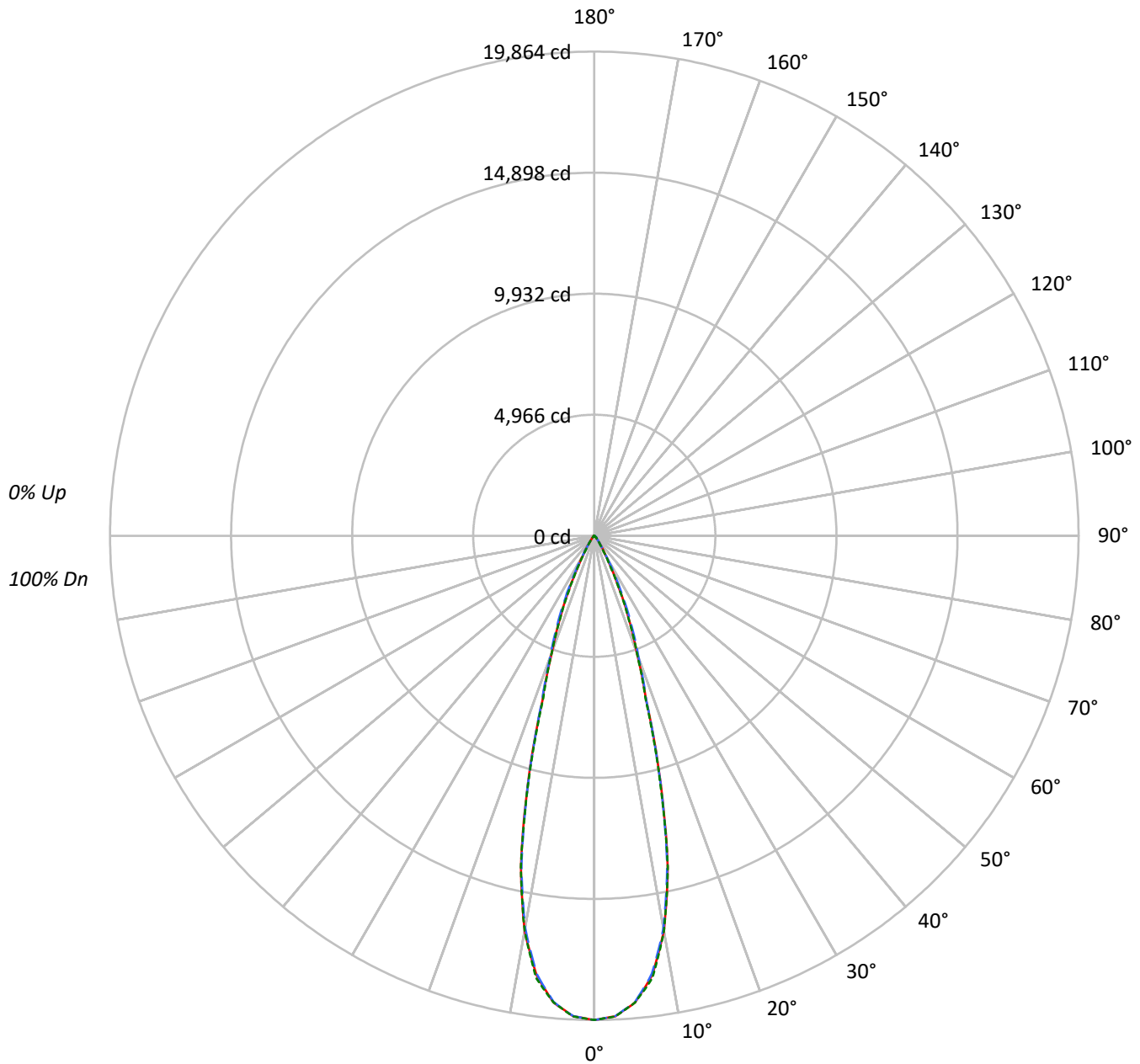


Downlight

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	1520443	1520443	1520443
5°	1476791	1475070	1476868
10°	1279123	1270107	1278820
15°	834569	830084	825908
20°	414993	430559	414431
25°	209046	235726	204764
30°	83700	91195	72926
35°	38825	37181	31163
40°	16757	18615	15787
45°	11821	14679	11929
50°	4061	10682	4299
55°	2349	4431	2469
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: 14679 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1746.7	28.3
10°-20°	2813.1	45.5
20°-30°	1215.6	19.7
30°-40°	277.1	4.5
40°-50°	95.1	1.5
50°-60°	23.2	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°	5775.4	93.5
0°-40°	6052.5	98.0
0°-60°	6170.9	99.9
0°-90°	6177.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6177.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19864	19864	19864	19864	19864	
5°	19220	19202	19198	19238	19221	1748
15°	10532	10405	10475	10441	10422	2820
25°	2475	2569	2791	2503	2424	1185
35°	416	424	398	395	334	282
45°	109	136	136	136	110	78
55°	18	18	33	20	18	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19863.8	19863.8	19863.8	19863.8	19863.8
2.5°	19732.1	19718.4	19726.2	19736.0	19739.9
5°	19220.1	19201.6	19197.7	19237.6	19221.1
7.5°	18187.3	18161.0	18121.0	18211.7	18296.5
10°	16457.2	16428.0	16341.2	16384.1	16453.3
12.5°	13903.1	13808.5	13806.5	13943.1	13924.5
15°	10531.7	10404.9	10475.1	10441.0	10422.4
17.5°	7082.2	7033.5	7127.1	7098.8	6976.9
20°	5094.7	5107.3	5285.8	5196.1	5087.8
22.5°	3717.6	3763.5	3975.1	3744.0	3659.1
25°	2475.2	2568.8	2791.1	2503.4	2424.5
27.5°	1522.4	1565.3	1790.5	1502.8	1459.9
30°	947.0	925.5	1031.8	885.5	825.1
32.5°	621.2	593.9	628.1	563.7	514.9
35°	415.5	424.2	397.9	395.0	333.5
37.5°	259.4	298.4	263.3	280.9	214.6
40°	167.7	216.5	186.3	205.8	158.0
42.5°	137.5	166.8	153.1	162.9	140.4
45°	109.2	135.6	135.6	135.6	110.2
47.5°	60.5	90.7	116.1	92.6	64.4
50°	34.1	45.8	89.7	47.8	36.1
52.5°	23.4	26.3	61.4	27.3	24.4
55°	17.6	18.5	33.2	19.5	18.5
57.5°	13.7	14.6	17.6	14.6	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)