

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: P750704

Luminaire Tested: LD4D60D010-EU4DR3055659040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750704
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-EU4DR3055659040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6133.7 lumens
Efficiency: N/A
Efficacy: 95.2 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 (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

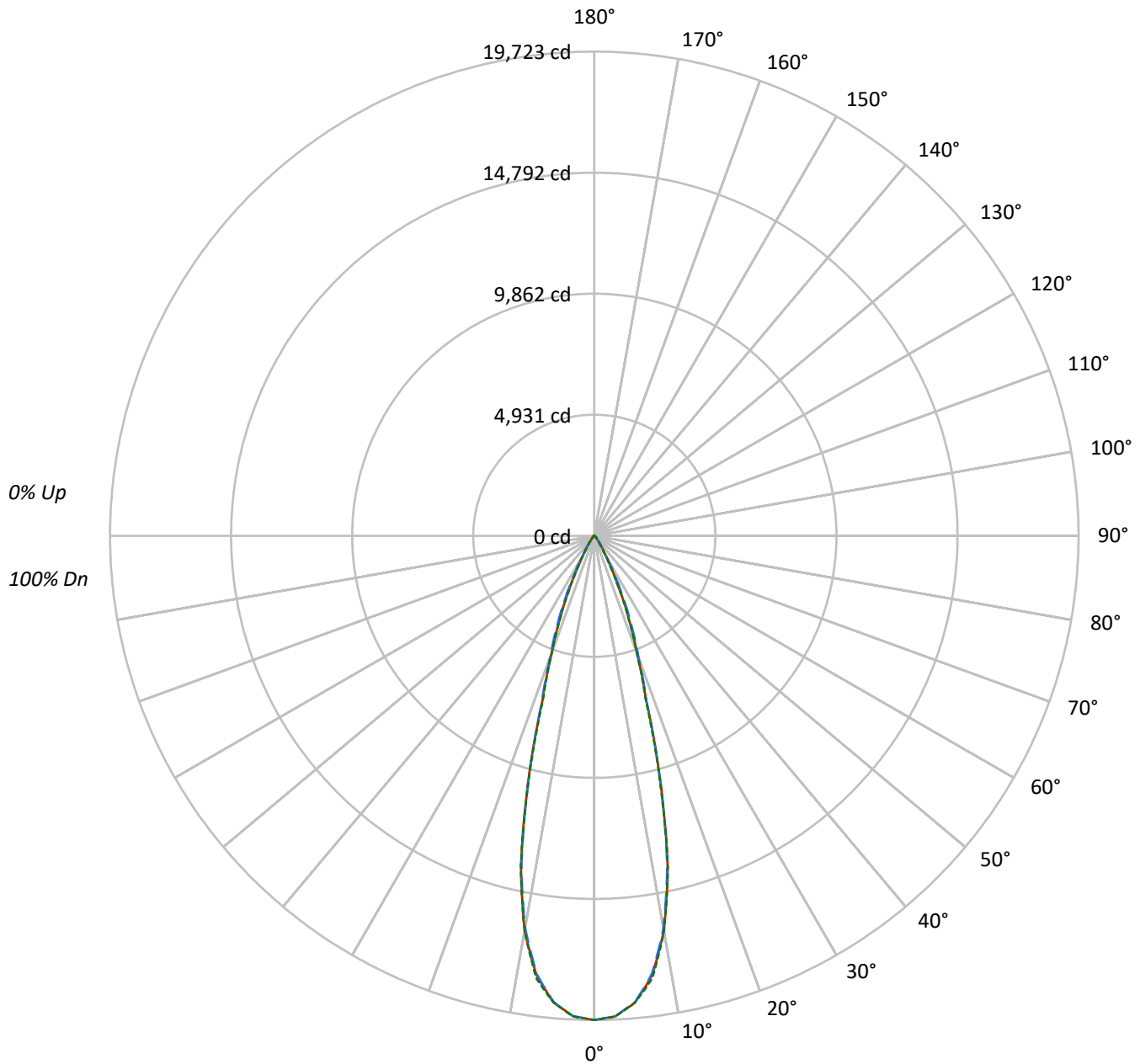


Downlight

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1509658	1509658	1509658
5°	1466319	1464605	1466388
10°	1270052	1261098	1269749
15°	828650	824196	820052
20°	412044	427504	411498
25°	207560	234062	203312
30°	83099	90550	72405
35°	38545	36919	30948
40°	16647	18485	15677
45°	11745	14570	11842
50°	4037	10610	4263
55°	2322	4390	2455
60°	1638	1929	1638
65°	1050	1050	1050
70°	649	425	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: 14570 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1734.3	28.3
10°-20°	2793.2	45.5
20°-30°	1207.0	19.7
30°-40°	275.1	4.5
40°-50°	94.5	1.5
50°-60°	23.1	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°	5734.5	93.5
0°-40°	6009.6	98.0
0°-60°	6127.1	99.9
0°-90°	6133.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6133.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19723	19723	19723	19723	19723	
5°	19084	19065	19062	19101	19085	1736
15°	10457	10331	10401	10367	10348	2800
25°	2458	2551	2771	2486	2407	1176
35°	412	421	395	392	331	280
45°	108	135	135	135	109	77
55°	17	18	33	19	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°	19722.9	19722.9	19722.9	19722.9	19722.9
2.5°	19592.2	19578.6	19586.3	19596.0	19599.9
5°	19083.8	19065.4	19061.5	19101.2	19084.7
7.5°	18058.3	18032.2	17992.5	18082.5	18166.8
10°	16340.5	16311.5	16225.3	16267.9	16336.6
12.5°	13804.5	13710.5	13708.6	13844.2	13825.8
15°	10457.0	10331.1	10400.8	10366.9	10348.5
17.5°	7032.0	6983.6	7076.5	7048.4	6927.4
20°	5058.5	5071.1	5248.3	5159.2	5051.8
22.5°	3691.3	3736.8	3946.9	3717.4	3633.2
25°	2457.6	2550.6	2771.4	2485.7	2407.3
27.5°	1511.6	1554.2	1777.8	1492.2	1449.6
30°	940.2	918.9	1024.5	879.2	819.2
32.5°	616.8	589.7	623.6	559.7	511.3
35°	412.5	421.2	395.1	392.2	331.2
37.5°	257.6	296.3	261.4	278.9	213.0
40°	166.6	215.0	185.0	204.3	156.9
42.5°	136.5	165.6	152.0	161.7	139.4
45°	108.5	134.6	134.6	134.6	109.4
47.5°	60.0	90.1	115.2	92.0	63.9
50°	33.9	45.5	89.1	47.4	35.8
52.5°	23.2	26.1	61.0	27.1	24.2
55°	17.4	18.4	32.9	19.4	18.4
57.5°	13.6	14.5	17.4	14.5	13.6
60°	10.7	10.7	12.6	11.6	10.7
62.5°	7.7	7.7	8.7	7.7	7.7
65°	5.8	5.8	5.8	5.8	5.8
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	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)