

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: P750674

Luminaire Tested: LD4D60D010-EU4DR3055659030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750674
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-EU4DR3055659030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4730.3 lumens
Efficiency: N/A
Efficacy: 73.5 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

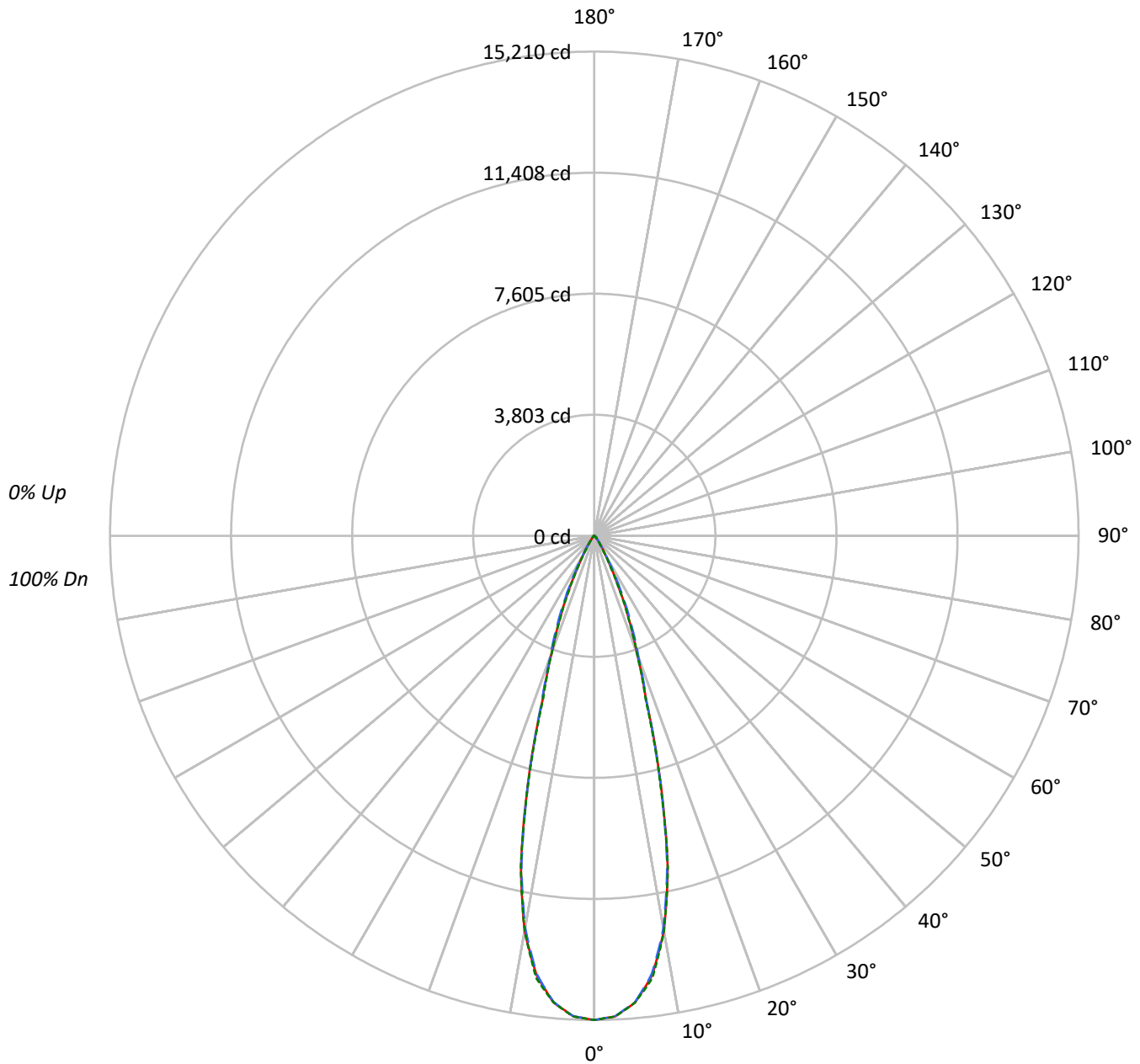


Downlight

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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°	1164248	1164248	1164248
5°	1130823	1129501	1130884
10°	979465	972555	979232
15°	639052	635620	632427
20°	317767	329692	317344
25°	160070	180508	156793
30°	64088	69833	55841
35°	29724	28472	23865
40°	12830	14249	12090
45°	9050	11236	9136
50°	3108	8181	3287
55°	1788	3390	1895
60°	1255	1485	1255
65°	815	815	815
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11236 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1337.5	28.3
10°-20°	2154.1	45.5
20°-30°	930.8	19.7
30°-40°	212.2	4.5
40°-50°	72.8	1.5
50°-60°	17.8	0.4
60°-70°	4.6	0.1
70°-80°	0.5	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°	4422.4	93.5
0°-40°	4634.6	98.0
0°-60°	4725.2	99.9
0°-90°	4730.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4730.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15210	15210	15210	15210	15210	
5°	14717	14703	14700	14731	14718	1339
15°	8064	7967	8021	7995	7981	2159
25°	1895	1967	2137	1917	1856	907
35°	318	325	305	302	255	216
45°	84	104	104	104	84	59
55°	13	14	25	15	14	13
65°	4	4	4	4	4	4
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°	15210.3	15210.3	15210.3	15210.3	15210.3
2.5°	15109.5	15099.0	15105.0	15112.5	15115.5
5°	14717.4	14703.2	14700.2	14730.9	14718.2
7.5°	13926.6	13906.4	13875.8	13945.3	14010.2
10°	12601.8	12579.4	12512.9	12545.8	12598.8
12.5°	10646.0	10573.6	10572.1	10676.6	10662.4
15°	8064.4	7967.3	8021.1	7995.0	7980.8
17.5°	5423.1	5385.7	5457.4	5435.8	5342.4
20°	3901.1	3910.9	4047.5	3978.8	3895.9
22.5°	2846.7	2881.8	3043.9	2866.9	2801.9
25°	1895.3	1967.0	2137.3	1917.0	1856.5
27.5°	1165.7	1198.6	1371.1	1150.8	1117.9
30°	725.1	708.7	790.1	678.1	631.8
32.5°	475.7	454.8	480.9	431.6	394.3
35°	318.1	324.8	304.7	302.4	255.4
37.5°	198.6	228.5	201.6	215.1	164.3
40°	128.4	165.8	142.6	157.6	121.0
42.5°	105.3	127.7	117.2	124.7	107.5
45°	83.6	103.8	103.8	103.8	84.4
47.5°	46.3	69.4	88.9	70.9	49.3
50°	26.1	35.1	68.7	36.6	27.6
52.5°	17.9	20.2	47.0	20.9	18.7
55°	13.4	14.2	25.4	14.9	14.2
57.5°	10.5	11.2	13.4	11.2	10.5
60°	8.2	8.2	9.7	9.0	8.2
62.5°	6.0	6.0	6.7	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.2	3.0	3.0	3.0	3.0
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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)