

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: P752238

Luminaire Tested: LD4D70BD010-EU4DR3070959030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752238
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: LD4D70BD010-EU4DR3070959030-4LBS1B
Description: 4 INCH ROUND SHALLOW 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: 6537.2 lumens
Efficiency: N/A
Efficacy: 98.2 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): 66.6
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

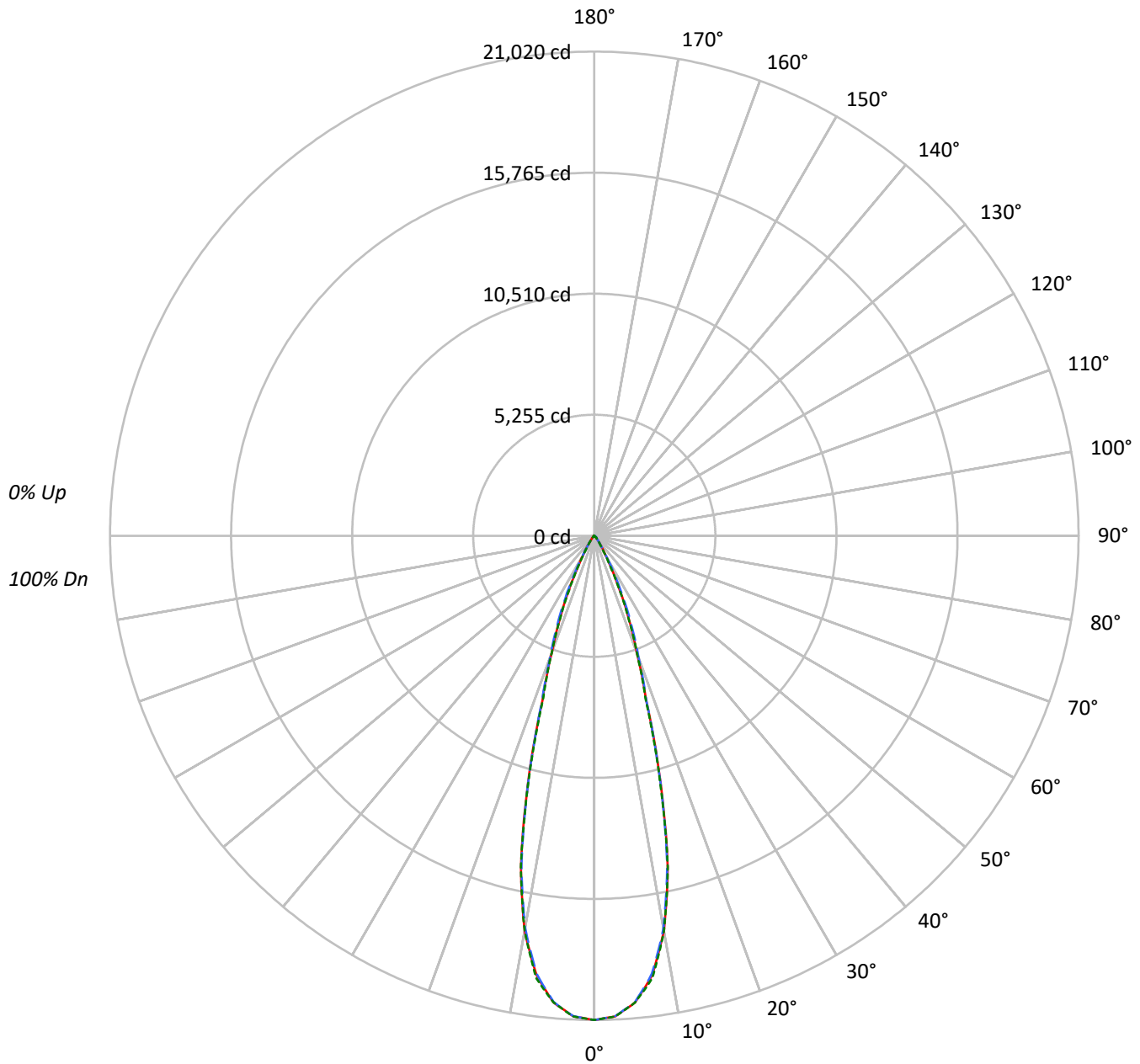


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1608950	1608950	1608950
5°	1562763	1560942	1562840
10°	1353590	1344046	1353272
15°	883154	878407	873993
20°	439153	455623	438558
25°	221216	249450	216681
30°	88570	96507	77169
35°	41077	39349	32985
40°	17736	19694	16707
45°	12514	15534	12622
50°	4299	11301	4549
55°	2482	4684	2616
60°	1745	2051	1745
65°	1123	1123	1123
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15534 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1848.4	28.3
10°-20°	2976.9	45.5
20°-30°	1286.4	19.7
30°-40°	293.2	4.5
40°-50°	100.7	1.5
50°-60°	24.6	0.4
60°-70°	6.4	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°	6111.7	93.5
0°-40°	6404.9	98.0
0°-60°	6530.1	99.9
0°-90°	6537.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6537.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21020	21020	21020	21020	21020	
5°	20339	20319	20315	20358	20340	1850
15°	11145	11011	11085	11049	11029	2984
25°	2619	2718	2954	2649	2566	1254
35°	440	449	421	418	353	298
45°	116	144	144	144	117	82
55°	19	20	35	21	20	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21020.1	21020.1	21020.1	21020.1	21020.1
2.5°	20880.8	20866.4	20874.6	20884.9	20889.1
5°	20339.0	20319.4	20315.3	20357.6	20340.0
7.5°	19246.1	19218.2	19175.9	19271.9	19361.7
10°	17415.3	17384.3	17292.5	17337.9	17411.2
12.5°	14712.4	14612.3	14610.3	14754.8	14735.1
15°	11144.8	11010.6	11084.9	11048.8	11029.2
17.5°	7494.5	7442.9	7542.0	7512.1	7383.1
20°	5391.3	5404.7	5593.5	5498.6	5384.0
22.5°	3934.1	3982.6	4206.5	3961.9	3872.1
25°	2619.3	2718.3	2953.6	2649.2	2565.6
27.5°	1611.0	1656.4	1894.8	1590.3	1544.9
30°	1002.1	979.4	1091.9	937.1	873.1
32.5°	657.4	628.5	664.6	596.5	544.9
35°	439.6	448.9	421.1	418.0	353.0
37.5°	274.5	315.8	278.6	297.2	227.0
40°	177.5	229.1	197.1	217.8	167.2
42.5°	145.5	176.5	162.0	172.3	148.6
45°	115.6	143.5	143.5	143.5	116.6
47.5°	64.0	96.0	122.8	98.0	68.1
50°	36.1	48.5	94.9	50.6	38.2
52.5°	24.8	27.9	65.0	28.9	25.8
55°	18.6	19.6	35.1	20.6	19.6
57.5°	14.4	15.5	18.6	15.5	14.4
60°	11.4	11.4	13.4	12.4	11.4
62.5°	8.3	8.3	9.3	8.3	8.3
65°	6.2	6.2	6.2	6.2	6.2
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	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



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)