

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: P781160

Luminaire Tested: LER4D35BD010-EC4DR6520359027-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D35BD010-EC4DR6520359027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2656.4 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
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

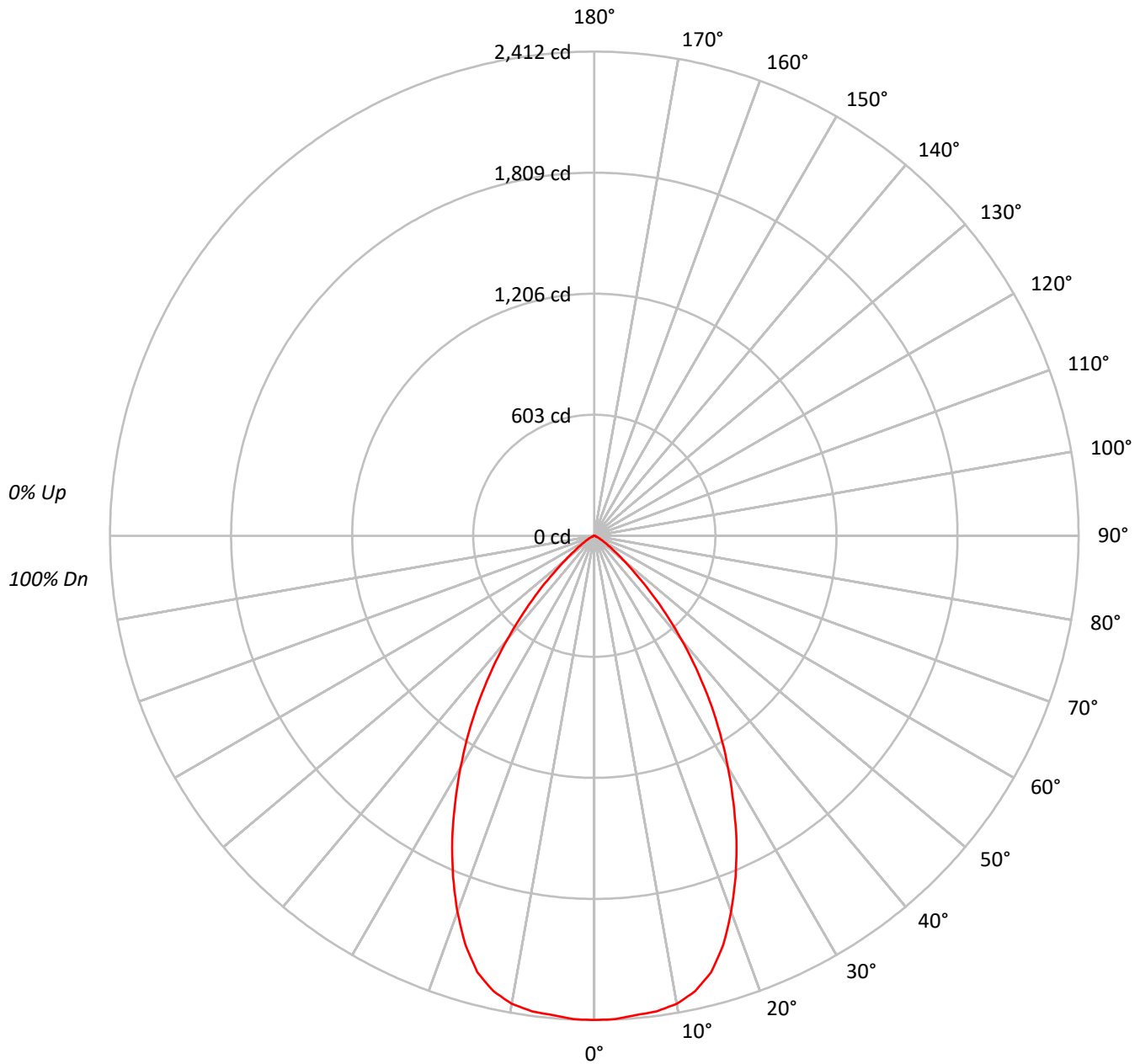


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	140870
5°	140511
10°	140392
15°	136062
20°	123869
25°	107946
30°	89782
35°	71134
40°	51341
45°	32435
50°	16909
55°	8991
60°	4719
65°	2598
70°	1093
75°	1196
80°	841
85°	737

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 32435 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.1	8.6
10°-20°	624.6	23.5
20°-30°	763.5	28.7
30°-40°	619.5	23.3
40°-50°	308.7	11.6
50°-60°	86.1	3.2
60°-70°	19.6	0.7
70°-80°	5.1	0.2
80°-90°	1.3	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°	1616.2	60.8
0°-40°	2235.6	84.2
0°-60°	2630.4	99.0
0°-90°	2656.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2656.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2412	
5°	2397	228
15°	2250	625
25°	1675	763
35°	998	619
45°	393	309
55°	88	86
65°	19	20
75°	5	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2412.0
2.5°	2410.2
5°	2396.7
7.5°	2388.9
10°	2367.3
12.5°	2323.3
15°	2250.3
17.5°	2136.2
20°	1993.0
22.5°	1838.5
25°	1675.1
27.5°	1500.3
30°	1331.3
32.5°	1164.3
35°	997.7
37.5°	831.5
40°	673.4
42.5°	525.3
45°	392.7
47.5°	273.6
50°	186.1
52.5°	128.3
55°	88.3
57.5°	59.5
60°	40.4
62.5°	28.0
65°	18.8
67.5°	9.6
70°	6.4
72.5°	6.0
75°	5.3
77.5°	3.5
80°	2.5
82.5°	1.8
85°	1.1
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)