

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: P781408

Luminaire Tested: LER4D40BD010-EC4DR6540509035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781408
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: LER4D40BD010-EC4DR6540509035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3255.6 lumens
Efficiency: N/A
Efficacy: 92.5 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): 35.2
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

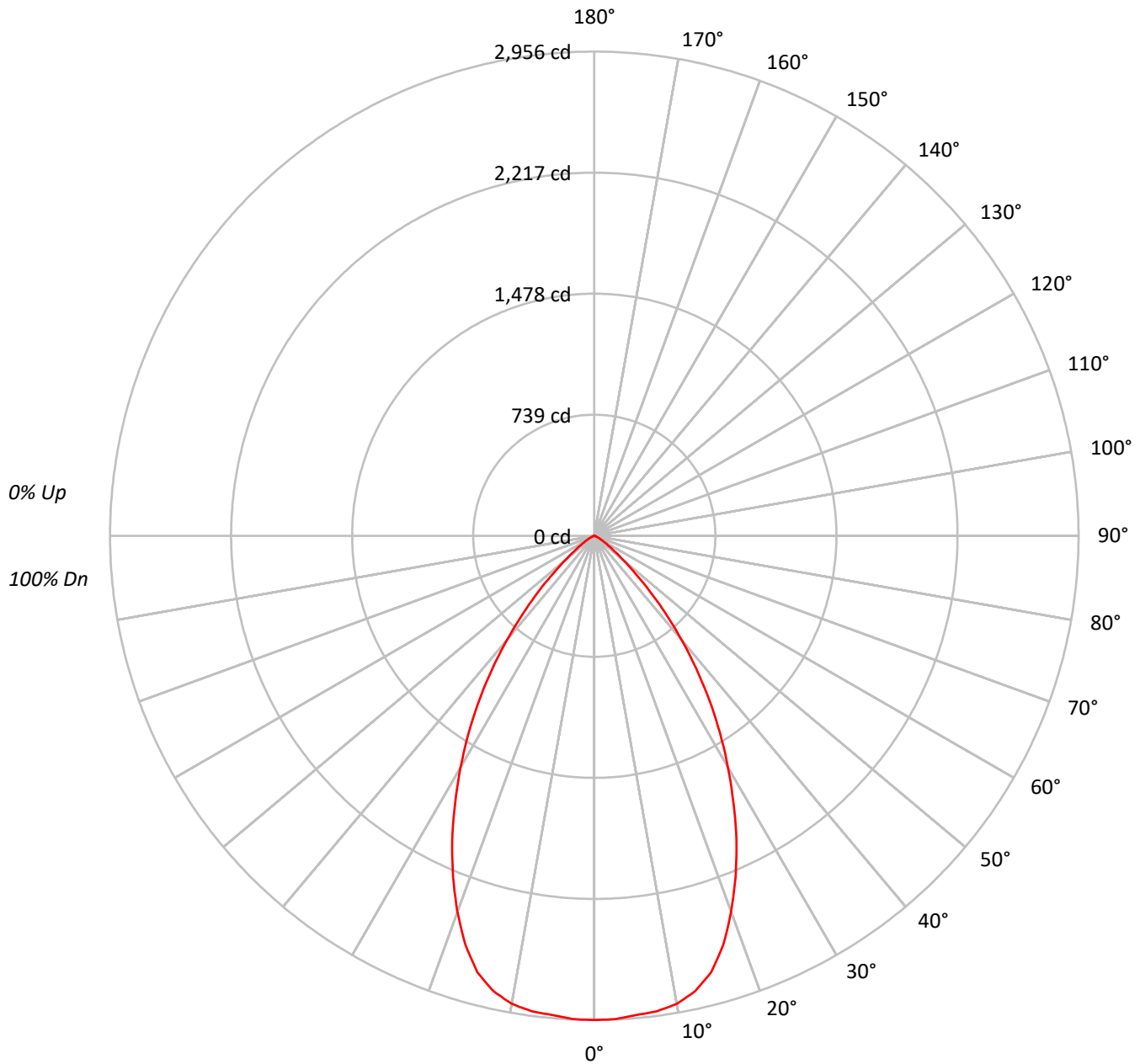


Downlight

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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°	172642
5°	172205
10°	172061
15°	166754
20°	151807
25°	132292
30°	110027
35°	87183
40°	62922
45°	39753
50°	20725
55°	11017
60°	5782
65°	3178
70°	1332
75°	1467
80°	1009
85°	871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 39753 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	8.6
10°-20°	765.5	23.5
20°-30°	935.7	28.7
30°-40°	759.2	23.3
40°-50°	378.3	11.6
50°-60°	105.5	3.2
60°-70°	24.0	0.7
70°-80°	6.2	0.2
80°-90°	1.6	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°	1980.7	60.8
0°-40°	2739.9	84.2
0°-60°	3223.8	99.0
0°-90°	3255.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3255.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2956	
5°	2937	280
15°	2758	765
25°	2053	936
35°	1223	759
45°	481	378
55°	108	106
65°	23	24
75°	6	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2956.0
2.5°	2953.8
5°	2937.3
7.5°	2927.8
10°	2901.3
12.5°	2847.4
15°	2757.9
17.5°	2618.0
20°	2442.5
22.5°	2253.2
25°	2052.9
27.5°	1838.8
30°	1631.5
32.5°	1427.0
35°	1222.8
37.5°	1019.1
40°	825.3
42.5°	643.8
45°	481.3
47.5°	335.3
50°	228.1
52.5°	157.2
55°	108.2
57.5°	73.0
60°	49.5
62.5°	34.3
65°	23.0
67.5°	11.7
70°	7.8
72.5°	7.4
75°	6.5
77.5°	4.3
80°	3.0
82.5°	2.2
85°	1.3
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)