

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: P781093

Luminaire Tested: LER4D35BD010-EC4DR5020359030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D35BD010-EC4DR5020359030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3489.5 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' 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

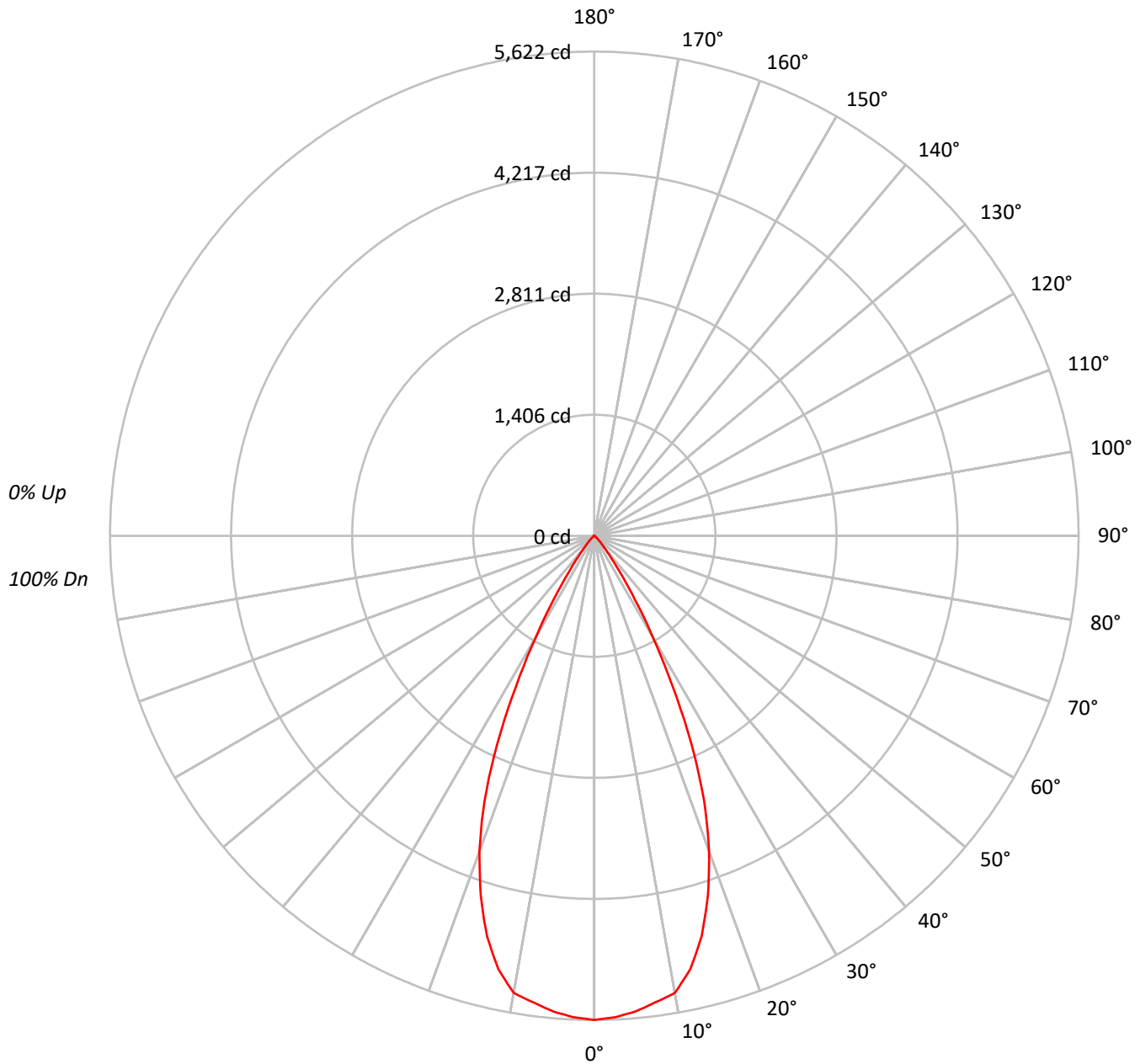


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	112	109	107		112	110	108	106		106	104	102		102	101	99		98	97	97
2	109	105	101	98		107	103	100	97		100	98	95		97	95	93		95	93	91
3	105	99	95	91		103	98	94	90		95	92	89		93	90	88		91	88	86
4	100	94	89	85		99	93	88	85		90	87	84		89	85	83		87	84	82
5	96	89	84	80		95	88	83	79		86	82	79		85	81	78		83	80	77
6	92	84	79	75		91	83	79	75		82	78	74		81	77	74		79	76	74
7	88	80	75	71		87	79	74	71		78	74	71		77	73	70		76	73	70
8	85	76	71	67		84	76	71	67		75	70	67		74	70	67		73	69	66
9	81	73	68	64		80	72	67	64		71	67	64		71	67	64		70	66	63
10	78	70	64	61		77	69	64	61		68	64	61		68	64	61		67	63	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	614319
5°	607880
10°	597867
15°	544400
20°	453011
25°	321571
30°	170207
35°	69359
40°	25759
45°	11790
50°	4827
55°	2534
60°	1246
65°	362
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11790 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.9	15.0
10°-20°	1323.9	37.9
20°-30°	1189.2	34.1
30°-40°	372.3	10.7
40°-50°	65.2	1.9
50°-60°	13.0	0.4
60°-70°	2.0	0.1
70°-80°	0.0	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°	3037.0	87.0
0°-40°	3409.4	97.7
0°-60°	3487.6	99.9
0°-90°	3489.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3489.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5622	
5°	5542	524
15°	4813	1324
25°	2667	1189
35°	520	372
45°	76	65
55°	13	13
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5622.5
2.5°	5594.5
5°	5542.4
7.5°	5462.7
10°	5388.8
12.5°	5151.8
15°	4812.8
17.5°	4382.4
20°	3896.1
22.5°	3333.4
25°	2667.4
27.5°	1961.1
30°	1349.1
32.5°	878.4
35°	520.0
37.5°	298.6
40°	180.6
42.5°	117.6
45°	76.3
47.5°	46.5
50°	28.4
52.5°	19.4
55°	13.3
57.5°	9.0
60°	5.7
62.5°	3.3
65°	1.4
67.5°	0.5
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)