

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: P781485

Luminaire Tested: LER4D45BD010-EC4DR3040509040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781485
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: LER4D45BD010-EC4DR3040509040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4480.6 lumens
Efficiency: N/A
Efficacy: 115.8 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): 38.7
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

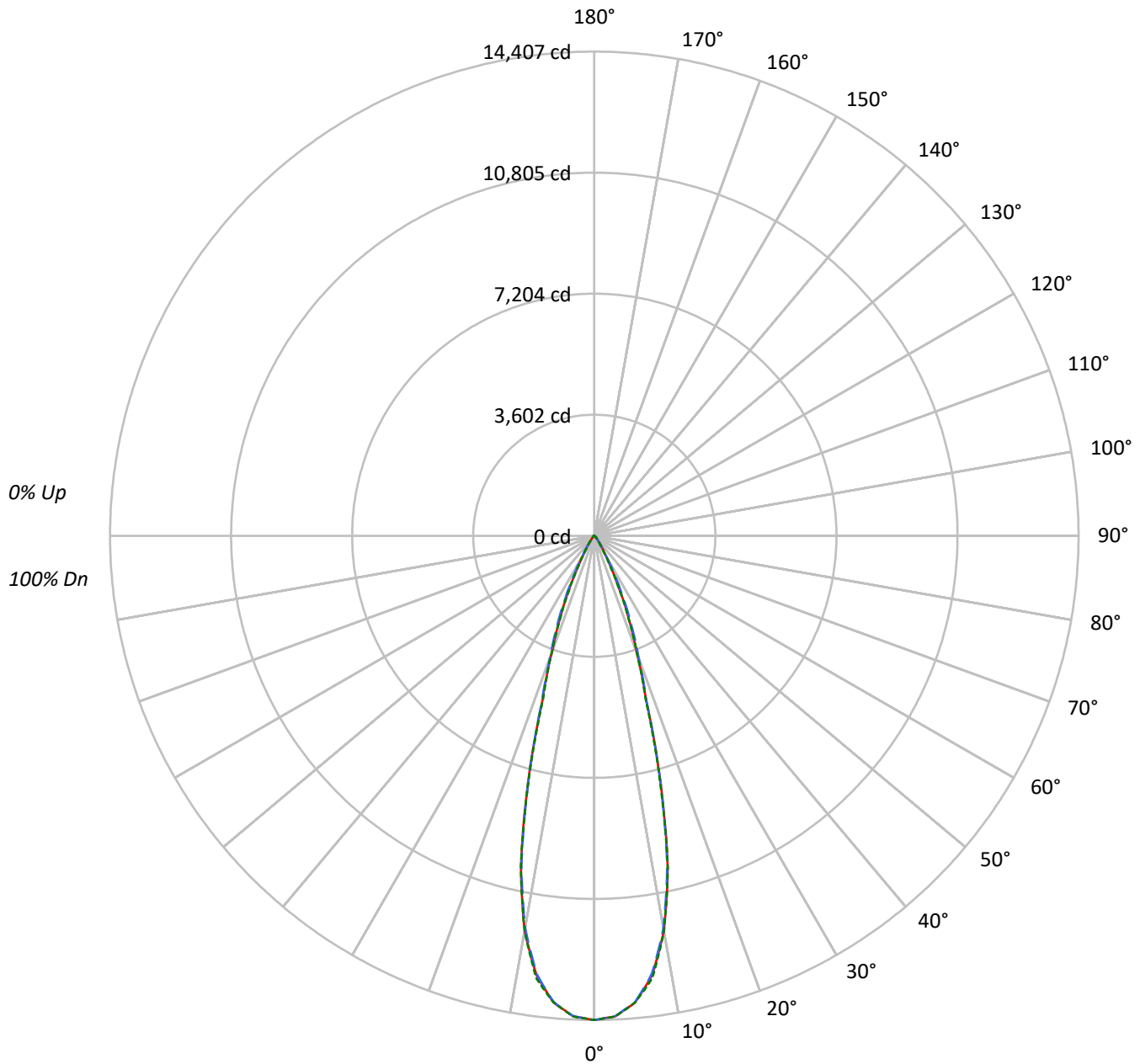


Downlight

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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°	1102784	1102784	1102784
5°	1071129	1069877	1071183
10°	927763	921218	927537
15°	605318	602069	599042
20°	300995	312285	300596
25°	151624	170973	148516
30°	60703	66147	52889
35°	28154	26967	22604
40°	12160	13499	11451
45°	8573	10641	8649
50°	2953	7752	3120
55°	1695	3203	1788
60°	1194	1408	1194
65°	761	761	761
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10641 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1266.9	28.3
10°-20°	2040.4	45.5
20°-30°	881.7	19.7
30°-40°	201.0	4.5
40°-50°	69.0	1.5
50°-60°	16.8	0.4
60°-70°	4.4	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°	4189.0	93.5
0°-40°	4389.9	98.0
0°-60°	4475.8	99.9
0°-90°	4480.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4480.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14407	14407	14407	14407	14407	
5°	13940	13927	13924	13953	13941	1268
15°	7639	7547	7598	7573	7560	2045
25°	1795	1863	2024	1816	1758	859
35°	301	308	289	286	242	204
45°	79	98	98	98	80	56
55°	13	13	24	14	13	12
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°	14407.3	14407.3	14407.3	14407.3	14407.3
2.5°	14311.8	14301.9	14307.6	14314.7	14317.5
5°	13940.5	13927.0	13924.2	13953.2	13941.2
7.5°	13191.4	13172.3	13143.3	13209.1	13270.6
10°	11936.6	11915.3	11852.4	11883.5	11933.7
12.5°	10084.0	10015.4	10014.0	10113.0	10099.6
15°	7638.7	7546.7	7597.7	7572.9	7559.5
17.5°	5136.8	5101.4	5169.3	5148.8	5060.4
20°	3695.2	3704.4	3833.8	3768.8	3690.3
22.5°	2696.4	2729.7	2883.2	2715.5	2654.0
25°	1795.3	1863.2	2024.4	1815.8	1758.5
27.5°	1104.2	1135.3	1298.7	1090.0	1058.9
30°	686.8	671.3	748.4	642.3	598.4
32.5°	450.6	430.8	455.5	408.8	373.5
35°	301.3	307.7	288.6	286.5	241.9
37.5°	188.2	216.4	191.0	203.7	155.6
40°	121.7	157.0	135.1	149.3	114.6
42.5°	99.7	121.0	111.1	118.1	101.9
45°	79.2	98.3	98.3	98.3	79.9
47.5°	43.9	65.8	84.2	67.2	46.7
50°	24.8	33.2	65.1	34.7	26.2
52.5°	17.0	19.1	44.6	19.8	17.7
55°	12.7	13.4	24.0	14.1	13.4
57.5°	9.9	10.6	12.7	10.6	9.9
60°	7.8	7.8	9.2	8.5	7.8
62.5°	5.7	5.7	6.4	5.7	5.7
65°	4.2	4.2	4.2	4.2	4.2
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	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)