

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: P781246

Luminaire Tested: LER4D40BD010-EC4DR3040509040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781246
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: LER4D40BD010-EC4DR3040509040-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 4295.0 lumens
Efficiency: N/A
Efficacy: 122.0 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): 35.2
Input Voltage (V): NR
Input Current (A_{in}): 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

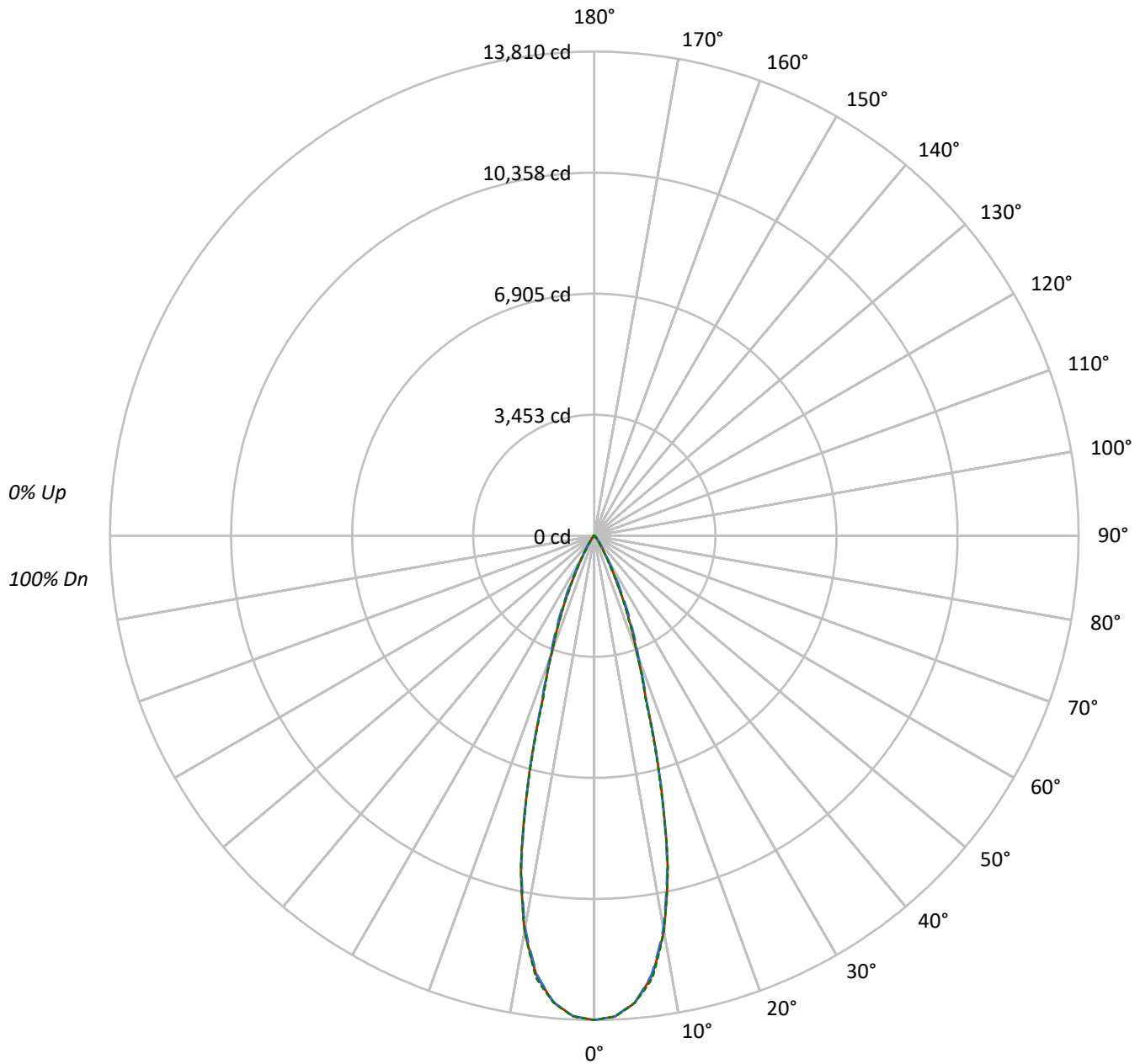


Downlight

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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	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°	1057087	1057087	1057087
5°	1026741	1025543	1026795
10°	889313	883048	889103
15°	580237	577115	574215
20°	288525	299350	288134
25°	145341	163896	142360
30°	58192	63407	50697
35°	26986	25846	21669
40°	11651	12940	10971
45°	8216	10197	8292
50°	2822	7431	2989
55°	1628	3083	1721
60°	1148	1347	1148
65°	743	743	743
70°	448	313	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10197 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1214.4	28.3
10°-20°	1955.8	45.5
20°-30°	845.2	19.7
30°-40°	192.6	4.5
40°-50°	66.1	1.5
50°-60°	16.2	0.4
60°-70°	4.2	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°	4015.4	93.5
0°-40°	4208.0	98.0
0°-60°	4290.3	99.9
0°-90°	4295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13810	13810	13810	13810	13810	
5°	13363	13350	13347	13375	13364	1215
15°	7322	7234	7283	7259	7246	1961
25°	1721	1786	1941	1740	1686	824
35°	289	295	277	275	232	196
45°	76	94	94	94	77	54
55°	12	13	23	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°	13810.3	13810.3	13810.3	13810.3	13810.3
2.5°	13718.8	13709.3	13714.7	13721.5	13724.2
5°	13362.8	13349.9	13347.2	13375.0	13363.5
7.5°	12644.8	12626.5	12598.7	12661.7	12720.7
10°	11441.9	11421.6	11361.3	11391.1	11439.2
12.5°	9666.2	9600.4	9599.0	9694.0	9681.1
15°	7322.2	7234.0	7282.8	7259.1	7246.2
17.5°	4923.9	4890.0	4955.1	4935.5	4850.7
20°	3542.1	3550.9	3675.0	3612.6	3537.3
22.5°	2584.7	2616.6	2763.7	2603.0	2544.0
25°	1720.9	1786.0	1940.6	1740.5	1685.6
27.5°	1058.4	1088.3	1244.9	1044.9	1015.0
30°	658.4	643.5	717.4	615.7	573.6
32.5°	431.9	412.9	436.7	391.9	358.0
35°	288.8	294.9	276.6	274.6	231.9
37.5°	180.4	207.5	183.1	195.3	149.2
40°	116.6	150.5	129.5	143.1	109.8
42.5°	95.6	115.9	106.5	113.2	97.6
45°	75.9	94.2	94.2	94.2	76.6
47.5°	42.0	63.1	80.7	64.4	44.8
50°	23.7	31.9	62.4	33.2	25.1
52.5°	16.3	18.3	42.7	19.0	17.0
55°	12.2	12.9	23.1	13.6	12.9
57.5°	9.5	10.2	12.2	10.2	9.5
60°	7.5	7.5	8.8	8.1	7.5
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
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)