

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: P792320

Luminaire Tested: LER6D40BD010-EC6DR3040509040-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D40BD010-EC6DR3040509040-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 4624.2 lumens
Efficiency: N/A
Efficacy: 131.4 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

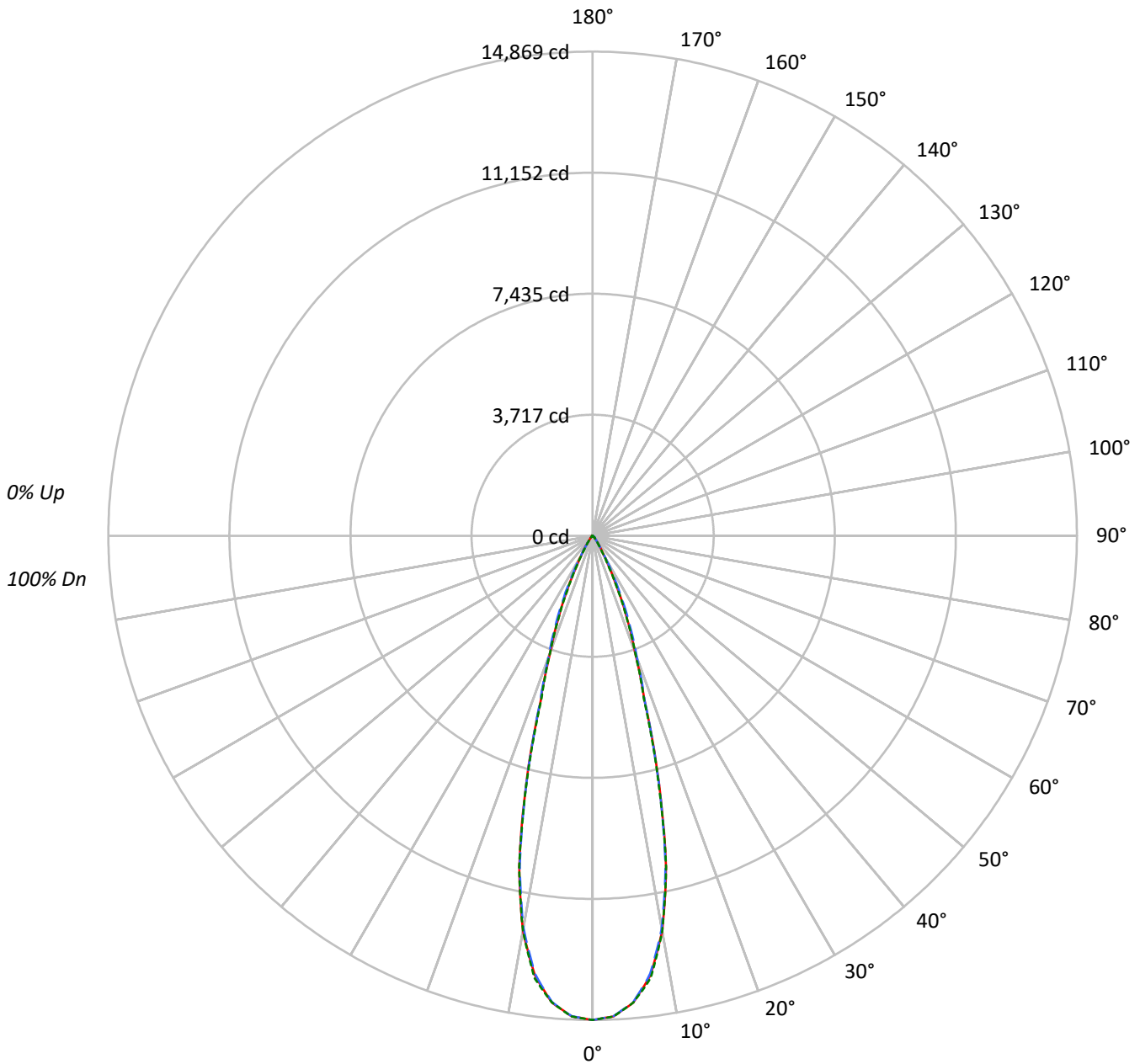


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	1138131	1138131	1138131
5°	1105459	1104169	1105513
10°	957500	950746	957267
15°	624717	621365	618242
20°	310640	322296	310224
25°	156481	176455	153271
30°	62656	68268	54586
35°	29061	27827	23333
40°	12550	13929	11821
45°	8855	10987	8931
50°	3048	8002	3215
55°	1748	3310	1855
60°	1225	1454	1225
65°	797	797	797
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10987 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1307.5	28.3
10°-20°	2105.8	45.5
20°-30°	910.0	19.7
30°-40°	207.4	4.5
40°-50°	71.2	1.5
50°-60°	17.4	0.4
60°-70°	4.5	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°	4323.2	93.5
0°-40°	4530.6	98.0
0°-60°	4619.3	99.9
0°-90°	4624.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4624.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14869	14869	14869	14869	14869	
5°	14387	14373	14370	14400	14388	1309
15°	7884	7789	7841	7816	7802	2111
25°	1853	1923	2089	1874	1815	887
35°	311	318	298	296	250	211
45°	82	102	102	102	82	58
55°	13	14	25	15	14	13
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14869.1	14869.1	14869.1	14869.1	14869.1
2.5°	14770.6	14760.4	14766.2	14773.5	14776.4
5°	14387.3	14373.4	14370.5	14400.5	14388.0
7.5°	13614.2	13594.5	13564.6	13632.5	13696.0
10°	12319.2	12297.3	12232.3	12264.4	12316.2
12.5°	10407.2	10336.4	10335.0	10437.2	10423.3
15°	7883.5	7788.6	7841.2	7815.6	7801.8
17.5°	5301.4	5264.9	5335.0	5313.8	5222.6
20°	3813.6	3823.1	3956.7	3889.6	3808.5
22.5°	2782.9	2817.2	2975.6	2802.6	2739.1
25°	1852.8	1922.9	2089.3	1874.0	1814.8
27.5°	1139.6	1171.7	1340.3	1125.0	1092.8
30°	708.9	692.8	772.4	662.9	617.6
32.5°	465.0	444.6	470.1	422.0	385.5
35°	311.0	317.6	297.8	295.7	249.7
37.5°	194.2	223.4	197.1	210.2	160.6
40°	125.6	162.1	139.4	154.0	118.3
42.5°	102.9	124.8	114.6	121.9	105.1
45°	81.8	101.5	101.5	101.5	82.5
47.5°	45.3	67.9	86.9	69.4	48.2
50°	25.6	34.3	67.2	35.8	27.0
52.5°	17.5	19.7	46.0	20.4	18.3
55°	13.1	13.9	24.8	14.6	13.9
57.5°	10.2	11.0	13.1	11.0	10.2
60°	8.0	8.0	9.5	8.8	8.0
62.5°	5.8	5.8	6.6	5.8	5.8
65°	4.4	4.4	4.4	4.4	4.4
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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