

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



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: P792311

Luminaire Tested: LER6D40BD010-EC6DR3040509035-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792311
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-EC6DR3040509035-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3556.7 lumens
Efficiency: N/A
Efficacy: 101.0 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

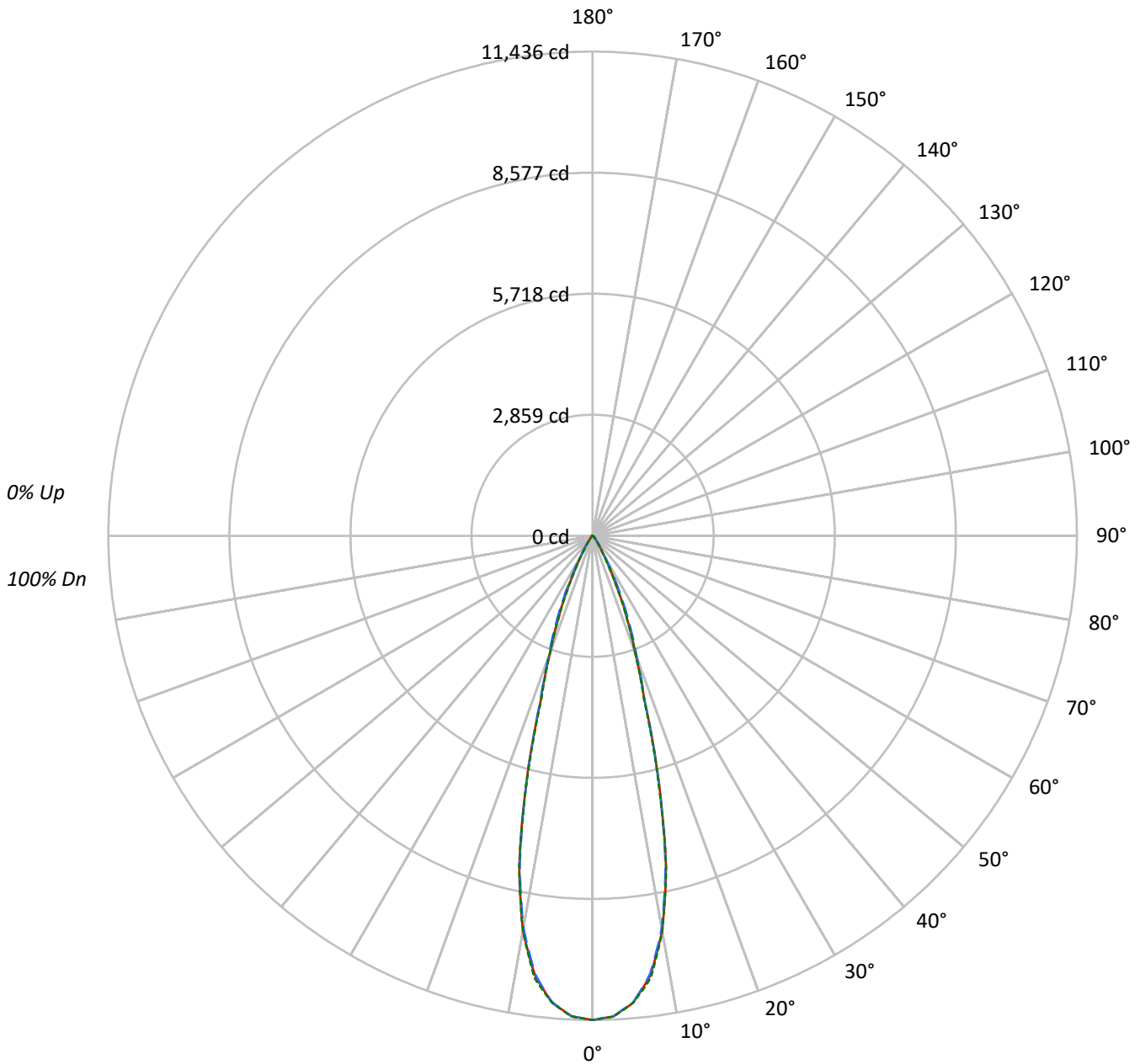


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	875381	875381	875381
5°	850249	849258	850288
10°	736445	731253	736266
15°	480493	477910	475509
20°	238926	247894	238608
25°	120359	135721	117893
30°	48187	52509	41983
35°	22351	21408	17941
40°	9652	10711	9093
45°	6809	8443	6863
50°	2346	6156	2477
55°	1348	2549	1428
60°	949	1118	949
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8443 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1005.7	28.3
10°-20°	1619.6	45.5
20°-30°	699.9	19.7
30°-40°	159.5	4.5
40°-50°	54.8	1.5
50°-60°	13.4	0.4
60°-70°	3.5	0.1
70°-80°	0.4	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°	3325.2	93.5
0°-40°	3484.7	98.0
0°-60°	3552.8	99.9
0°-90°	3556.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3556.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11436	11436	11436	11436	11436	
5°	11066	11055	11053	11076	11066	1006
15°	6064	5990	6031	6011	6001	1624
25°	1425	1479	1607	1441	1396	682
35°	239	244	229	227	192	162
45°	63	78	78	78	63	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
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°	11436.4	11436.4	11436.4	11436.4	11436.4
2.5°	11360.6	11352.7	11357.2	11362.8	11365.1
5°	11065.8	11055.1	11052.9	11075.9	11066.3
7.5°	10471.2	10456.0	10433.0	10485.2	10534.1
10°	9475.1	9458.2	9408.3	9433.0	9472.8
12.5°	8004.6	7950.1	7949.0	8027.6	8016.9
15°	6063.5	5990.5	6030.9	6011.3	6000.6
17.5°	4077.5	4049.4	4103.3	4087.1	4016.9
20°	2933.2	2940.5	3043.3	2991.6	2929.3
22.5°	2140.4	2166.8	2288.6	2155.5	2106.7
25°	1425.1	1479.0	1607.0	1441.3	1395.9
27.5°	876.5	901.2	1030.9	865.3	840.5
30°	545.2	532.9	594.1	509.8	475.0
32.5°	357.7	341.9	361.6	324.5	296.5
35°	239.2	244.2	229.1	227.4	192.0
37.5°	149.4	171.8	151.6	161.7	123.5
40°	96.6	124.7	107.2	118.5	91.0
42.5°	79.2	96.0	88.2	93.8	80.9
45°	62.9	78.0	78.0	78.0	63.4
47.5°	34.8	52.2	66.8	53.3	37.1
50°	19.7	26.4	51.7	27.5	20.8
52.5°	13.5	15.2	35.4	15.7	14.0
55°	10.1	10.7	19.1	11.2	10.7
57.5°	7.9	8.4	10.1	8.4	7.9
60°	6.2	6.2	7.3	6.7	6.2
62.5°	4.5	4.5	5.1	4.5	4.5
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.2	2.2	2.2	2.2
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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