

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: P792312

Luminaire Tested: LER6D40BD010-EC6DR3040509035-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792312
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-EC6DR3040509035-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4417.7 lumens
Efficiency: N/A
Efficacy: 125.5 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

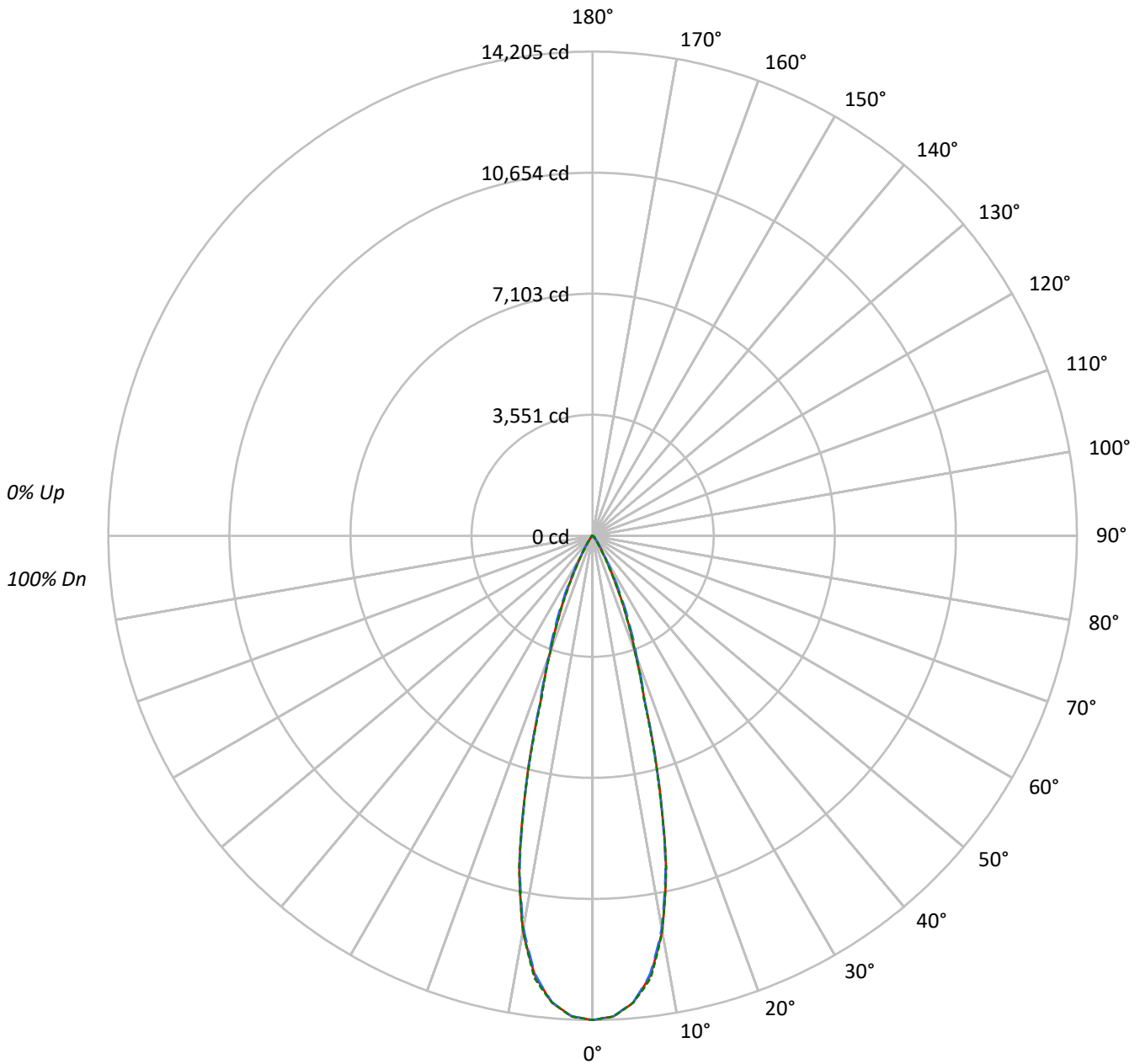


Downlight

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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°	1087299	1087299	1087299
5°	1056085	1054855	1056139
10°	914728	908277	914511
15°	596815	593613	590626
20°	296768	307903	296369
25°	149488	168575	146430
30°	59854	65219	52147
35°	27762	26584	22286
40°	11990	13309	11291
45°	8454	10489	8530
50°	2906	7645	3072
55°	1681	3163	1775
60°	1179	1393	1179
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: 10489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1249.1	28.3
10°-20°	2011.7	45.5
20°-30°	869.3	19.7
30°-40°	198.1	4.5
40°-50°	68.0	1.5
50°-60°	16.6	0.4
60°-70°	4.3	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°	4130.1	93.5
0°-40°	4328.3	98.0
0°-60°	4412.9	99.9
0°-90°	4417.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4417.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14205	14205	14205	14205	14205	
5°	13745	13732	13729	13757	13745	1250
15°	7531	7441	7491	7467	7453	2017
25°	1770	1837	1996	1790	1734	847
35°	297	303	284	282	238	202
45°	78	97	97	97	79	55
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°	14205.0	14205.0	14205.0	14205.0	14205.0
2.5°	14110.9	14101.1	14106.7	14113.7	14116.4
5°	13744.7	13731.5	13728.7	13757.3	13745.4
7.5°	13006.2	12987.3	12958.7	13023.6	13084.3
10°	11768.9	11748.0	11685.9	11716.6	11766.1
12.5°	9942.4	9874.7	9873.4	9971.0	9957.7
15°	7531.4	7440.8	7491.0	7466.6	7453.3
17.5°	5064.7	5029.8	5096.7	5076.5	4989.3
20°	3643.3	3652.4	3780.0	3715.8	3638.4
22.5°	2658.6	2691.3	2842.7	2677.4	2616.7
25°	1770.0	1837.0	1996.0	1790.3	1733.8
27.5°	1088.7	1119.4	1280.5	1074.7	1044.0
30°	677.2	661.9	737.9	633.3	590.0
32.5°	444.3	424.7	449.1	403.1	368.2
35°	297.1	303.4	284.5	282.5	238.5
37.5°	185.5	213.4	188.3	200.9	153.4
40°	120.0	154.8	133.2	147.2	113.0
42.5°	98.3	119.3	109.5	116.5	100.4
45°	78.1	96.9	96.9	96.9	78.8
47.5°	43.2	64.9	83.0	66.3	46.0
50°	24.4	32.8	64.2	34.2	25.8
52.5°	16.7	18.8	43.9	19.5	17.4
55°	12.6	13.3	23.7	13.9	13.3
57.5°	9.8	10.5	12.6	10.5	9.8
60°	7.7	7.7	9.1	8.4	7.7
62.5°	5.6	5.6	6.3	5.6	5.6
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

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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