

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: P791845

Luminaire Tested: LER6D35BD010-EC6DR3020359040-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P791845
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: LER6D35BD010-EC6DR3020359040-6LBS1LI
Description: 6 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: 4341.6 lumens
Efficiency: N/A
Efficacy: 141.0 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

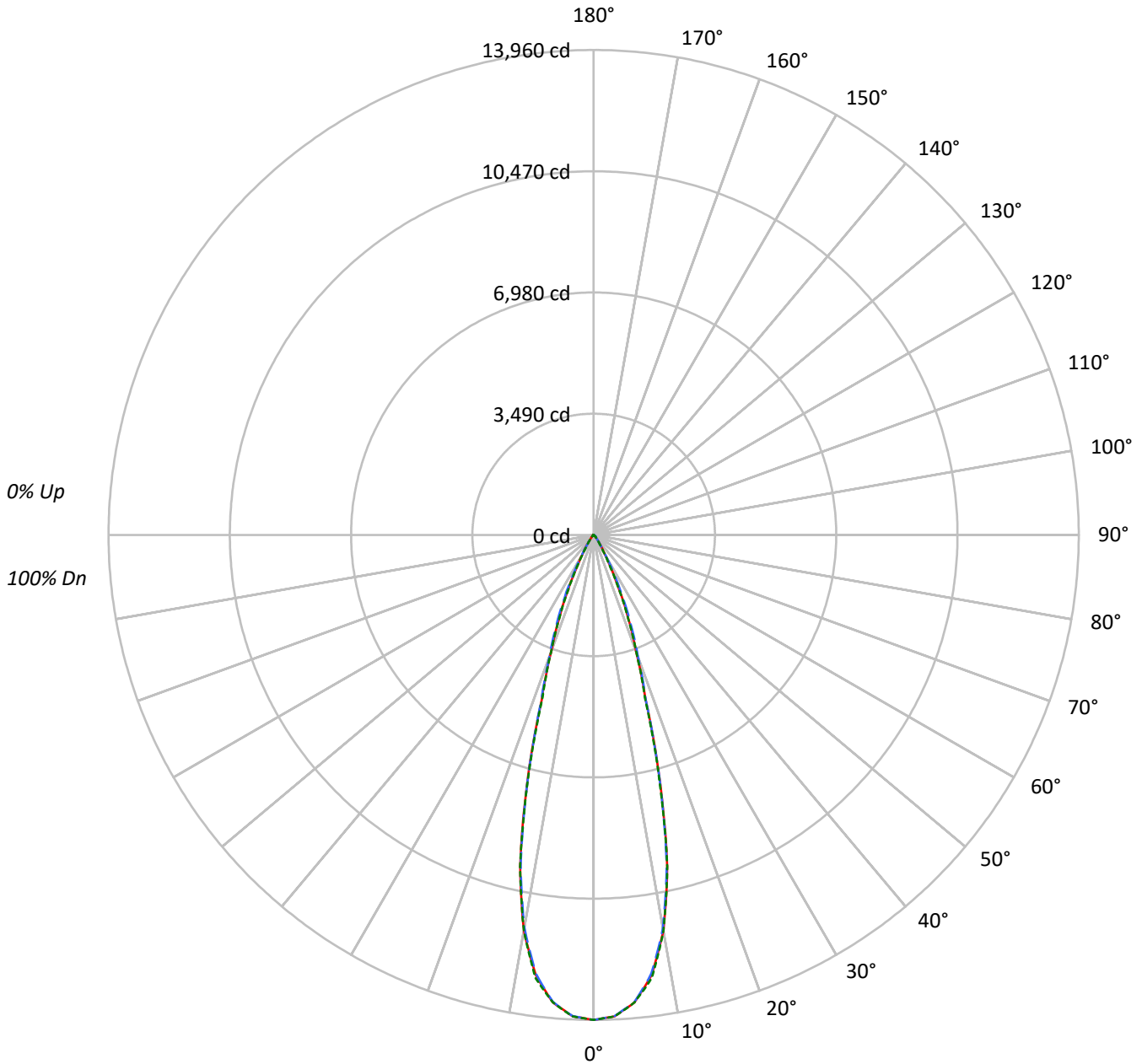
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1068576	1068576	1068576
5°	1037898	1036691	1037951
10°	898981	892639	898764
15°	586537	583391	580459
20°	291661	302600	291270
25°	146920	165669	143905
30°	58820	64097	51254
35°	27285	26126	21903
40°	11781	13080	11091
45°	8314	10316	8389
50°	2858	7514	3025
55°	1641	3109	1735
60°	1148	1362	1148
65°	743	743	743
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: 10316 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1227.6	28.3
10°-20°	1977.1	45.5
20°-30°	854.3	19.7
30°-40°	194.7	4.5
40°-50°	66.9	1.5
50°-60°	16.3	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°	4059.0	93.5
0°-40°	4253.8	98.0
0°-60°	4336.9	99.9
0°-90°	4341.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4341.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13960	13960	13960	13960	13960	
5°	13508	13495	13492	13520	13509	1229
15°	7402	7313	7362	7338	7325	1982
25°	1740	1805	1962	1759	1704	833
35°	292	298	280	278	234	198
45°	77	95	95	95	78	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13960.4	13960.4	13960.4	13960.4	13960.4
2.5°	13867.9	13858.3	13863.8	13870.6	13873.4
5°	13508.0	13495.0	13492.3	13520.4	13508.7
7.5°	12782.2	12763.7	12735.6	12799.3	12859.0
10°	11566.3	11545.7	11484.7	11514.9	11563.5
12.5°	9771.2	9704.7	9703.3	9799.3	9786.3
15°	7401.7	7312.6	7362.0	7338.0	7325.0
17.5°	4977.4	4943.2	5009.0	4989.1	4903.4
20°	3580.6	3589.5	3714.9	3651.9	3575.8
22.5°	2612.8	2645.0	2793.7	2631.3	2571.7
25°	1739.6	1805.4	1961.6	1759.4	1703.9
27.5°	1069.9	1100.1	1258.4	1056.2	1026.1
30°	665.5	650.5	725.2	622.4	579.9
32.5°	436.6	417.4	441.4	396.2	361.9
35°	292.0	298.2	279.6	277.6	234.4
37.5°	182.3	209.7	185.1	197.4	150.8
40°	117.9	152.2	130.9	144.6	111.0
42.5°	96.6	117.2	107.6	114.5	98.7
45°	76.8	95.3	95.3	95.3	77.5
47.5°	42.5	63.7	81.6	65.1	45.2
50°	24.0	32.2	63.1	33.6	25.4
52.5°	16.4	18.5	43.2	19.2	17.1
55°	12.3	13.0	23.3	13.7	13.0
57.5°	9.6	10.3	12.3	10.3	9.6
60°	7.5	7.5	8.9	8.2	7.5
62.5°	5.5	5.5	6.2	5.5	5.5
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.1	2.7	2.7	2.7	2.7
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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