

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: P791811

Luminaire Tested: LER6D35BD010-EC6DR3020359024-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P791811
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-EC6DR3020359024-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3140.5 lumens
Efficiency: N/A
Efficacy: 102.0 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

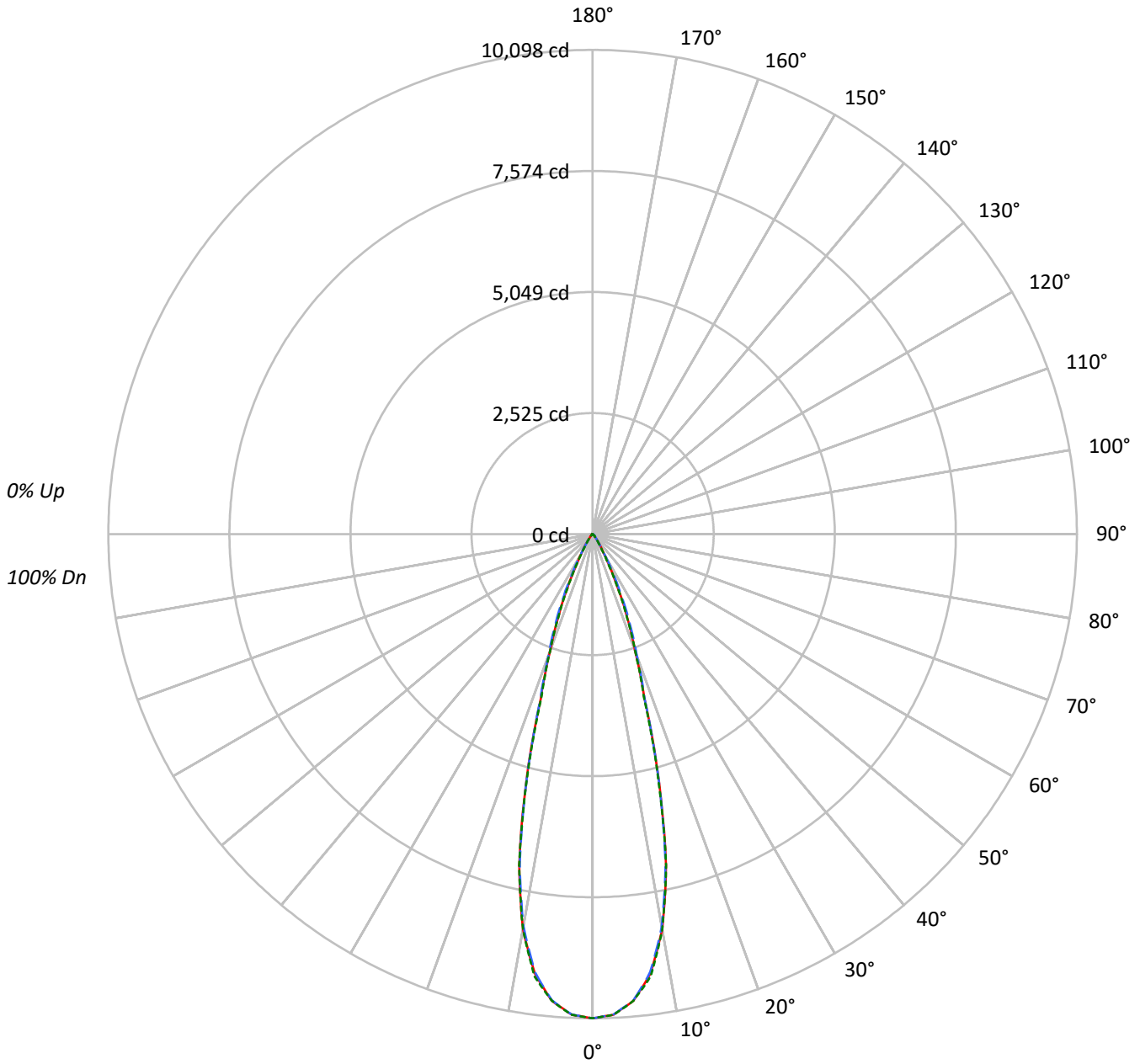
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	772958	772958	772958
5°	750762	749886	750801
10°	650280	645694	650124
15°	424270	421996	419872
20°	210970	218888	210685
25°	106271	119843	104092
30°	42548	46358	37069
35°	19735	18903	15848
40°	8523	9462	8024
45°	6008	7458	6062
50°	2072	5430	2179
55°	1188	2255	1254
60°	842	980	842
65°	543	543	543
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7458 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	888.0	28.3
10°-20°	1430.1	45.5
20°-30°	618.0	19.7
30°-40°	140.9	4.5
40°-50°	48.4	1.5
50°-60°	11.8	0.4
60°-70°	3.1	0.1
70°-80°	0.3	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°	2936.1	93.5
0°-40°	3077.0	98.0
0°-60°	3137.1	99.9
0°-90°	3140.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3140.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10098	10098	10098	10098	10098	
5°	9771	9762	9760	9780	9772	889
15°	5354	5290	5325	5308	5298	1434
25°	1258	1306	1419	1273	1232	602
35°	211	216	202	201	170	143
45°	56	69	69	69	56	39
55°	9	9	17	10	9	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	10098.3	10098.3	10098.3	10098.3	10098.3
2.5°	10031.3	10024.4	10028.4	10033.3	10035.3
5°	9771.0	9761.6	9759.6	9780.0	9771.5
7.5°	9246.0	9232.6	9212.3	9258.4	9301.5
10°	8366.5	8351.6	8307.5	8329.3	8364.5
12.5°	7068.0	7019.9	7018.9	7088.3	7078.9
15°	5354.0	5289.6	5325.3	5307.9	5298.5
17.5°	3600.4	3575.6	3623.2	3608.9	3546.9
20°	2590.0	2596.5	2687.2	2641.6	2586.5
22.5°	1890.0	1913.3	2020.8	1903.3	1860.2
25°	1258.3	1305.9	1419.0	1272.7	1232.5
27.5°	773.9	795.7	910.3	764.0	742.2
30°	481.4	470.5	524.5	450.2	419.4
32.5°	315.8	301.9	319.3	286.6	261.8
35°	211.2	215.7	202.3	200.8	169.6
37.5°	131.9	151.7	133.9	142.8	109.1
40°	85.3	110.1	94.7	104.6	80.3
42.5°	69.9	84.8	77.8	82.8	71.4
45°	55.5	68.9	68.9	68.9	56.0
47.5°	30.7	46.1	59.0	47.1	32.7
50°	17.4	23.3	45.6	24.3	18.3
52.5°	11.9	13.4	31.2	13.9	12.4
55°	8.9	9.4	16.9	9.9	9.4
57.5°	6.9	7.4	8.9	7.4	6.9
60°	5.5	5.5	6.4	5.9	5.5
62.5°	4.0	4.0	4.5	4.0	4.0
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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