

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: P791846

Luminaire Tested: LER6D35BD010-EC6DR3020359040-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P791846
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-EC6DR3020359040-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3930.4 lumens
Efficiency: N/A
Efficacy: 127.6 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

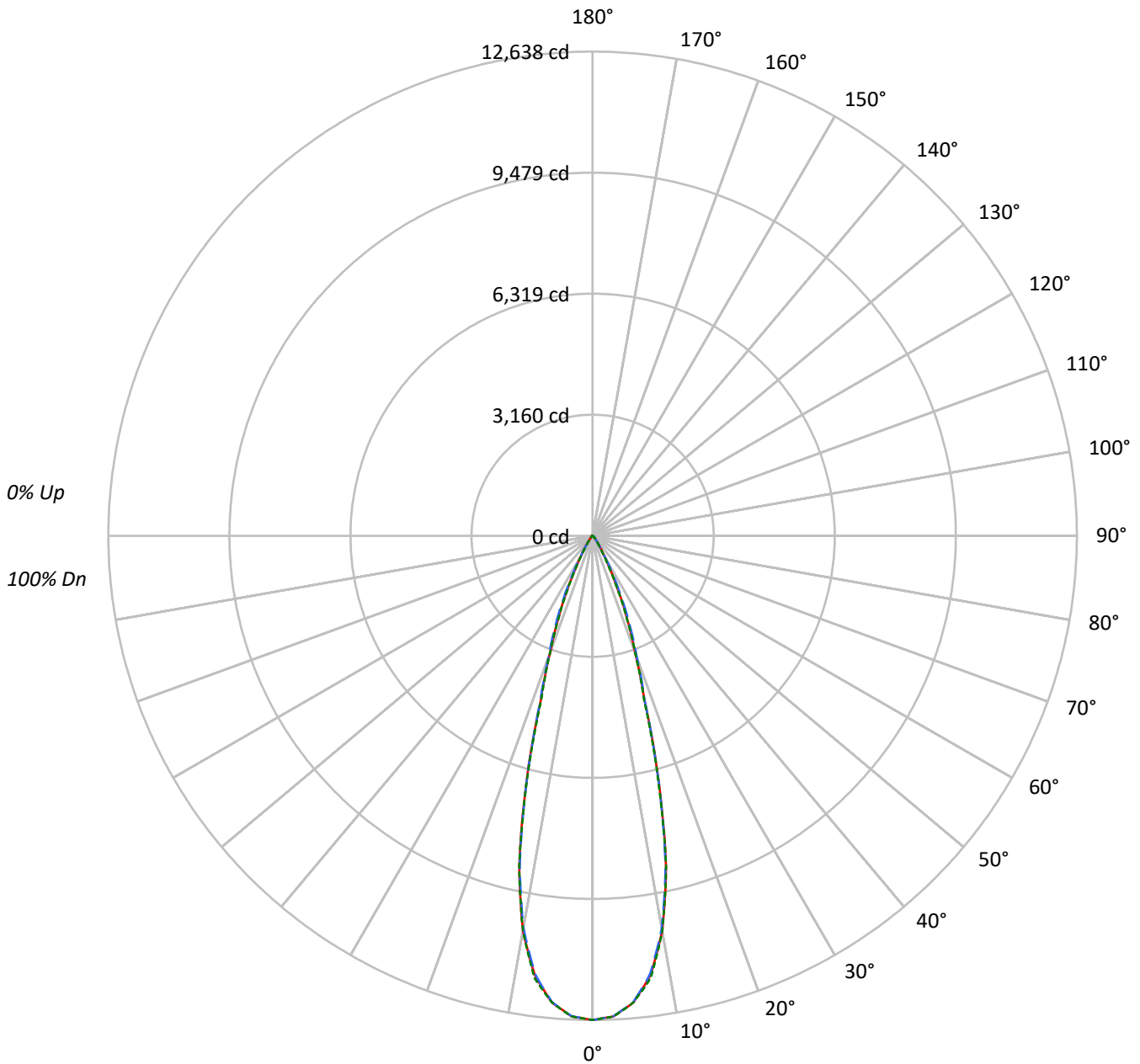
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	967371	967371	967371
5°	939602	938503	939648
10°	813835	808099	813640
15°	530987	528135	525480
20°	264039	273944	263681
25°	133002	149977	130274
30°	53252	58025	46393
35°	24697	23660	19828
40°	10661	11841	10042
45°	7523	9331	7588
50°	2584	6799	2739
55°	1495	2816	1575
60°	1041	1240	1041
65°	670	670	670
70°	425	269	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9331 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1111.3	28.3
10°-20°	1789.8	45.5
20°-30°	773.4	19.7
30°-40°	176.3	4.5
40°-50°	60.5	1.5
50°-60°	14.8	0.4
60°-70°	3.8	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°	3674.6	93.5
0°-40°	3850.9	98.0
0°-60°	3926.2	99.9
0°-90°	3930.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3930.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12638	12638	12638	12638	12638	
5°	12229	12217	12214	12240	12229	1112
15°	6701	6620	6665	6643	6631	1794
25°	1575	1634	1776	1593	1542	754
35°	264	270	253	251	212	179
45°	70	86	86	86	70	49
55°	11	12	21	12	12	11
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°	12638.2	12638.2	12638.2	12638.2	12638.2
2.5°	12554.4	12545.7	12550.7	12556.9	12559.4
5°	12228.7	12216.9	12214.4	12239.8	12229.3
7.5°	11571.6	11554.8	11529.4	11587.1	11641.0
10°	10470.8	10452.2	10397.0	10424.3	10468.3
12.5°	8845.7	8785.5	8784.3	8871.2	8859.4
15°	6700.7	6620.0	6664.7	6643.0	6631.2
17.5°	4506.0	4475.0	4534.6	4516.6	4439.0
20°	3241.5	3249.5	3363.1	3306.0	3237.1
22.5°	2365.3	2394.5	2529.1	2382.1	2328.1
25°	1574.8	1634.4	1775.8	1592.8	1542.5
27.5°	968.6	995.9	1139.2	956.2	928.9
30°	602.5	588.8	656.5	563.4	524.9
32.5°	395.3	377.9	399.6	358.6	327.6
35°	264.3	269.9	253.2	251.3	212.2
37.5°	165.1	189.9	167.5	178.7	136.5
40°	106.7	137.7	118.5	130.9	100.5
42.5°	87.5	106.1	97.4	103.6	89.4
45°	69.5	86.2	86.2	86.2	70.1
47.5°	38.5	57.7	73.8	58.9	41.0
50°	21.7	29.2	57.1	30.4	23.0
52.5°	14.9	16.8	39.1	17.4	15.5
55°	11.2	11.8	21.1	12.4	11.8
57.5°	8.7	9.3	11.2	9.3	8.7
60°	6.8	6.8	8.1	7.4	6.8
62.5°	5.0	5.0	5.6	5.0	5.0
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.9	2.5	2.5	2.5	2.5
70°	1.9	1.2	1.2	1.2	1.9
72.5°	1.2	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

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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