

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: P791354

Luminaire Tested: LER6D30D010-EC6DR3020359035-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P791354
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: LER6D30D010-EC6DR3020359035-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5115.4 lumens
Efficiency: N/A
Efficacy: 176.4 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

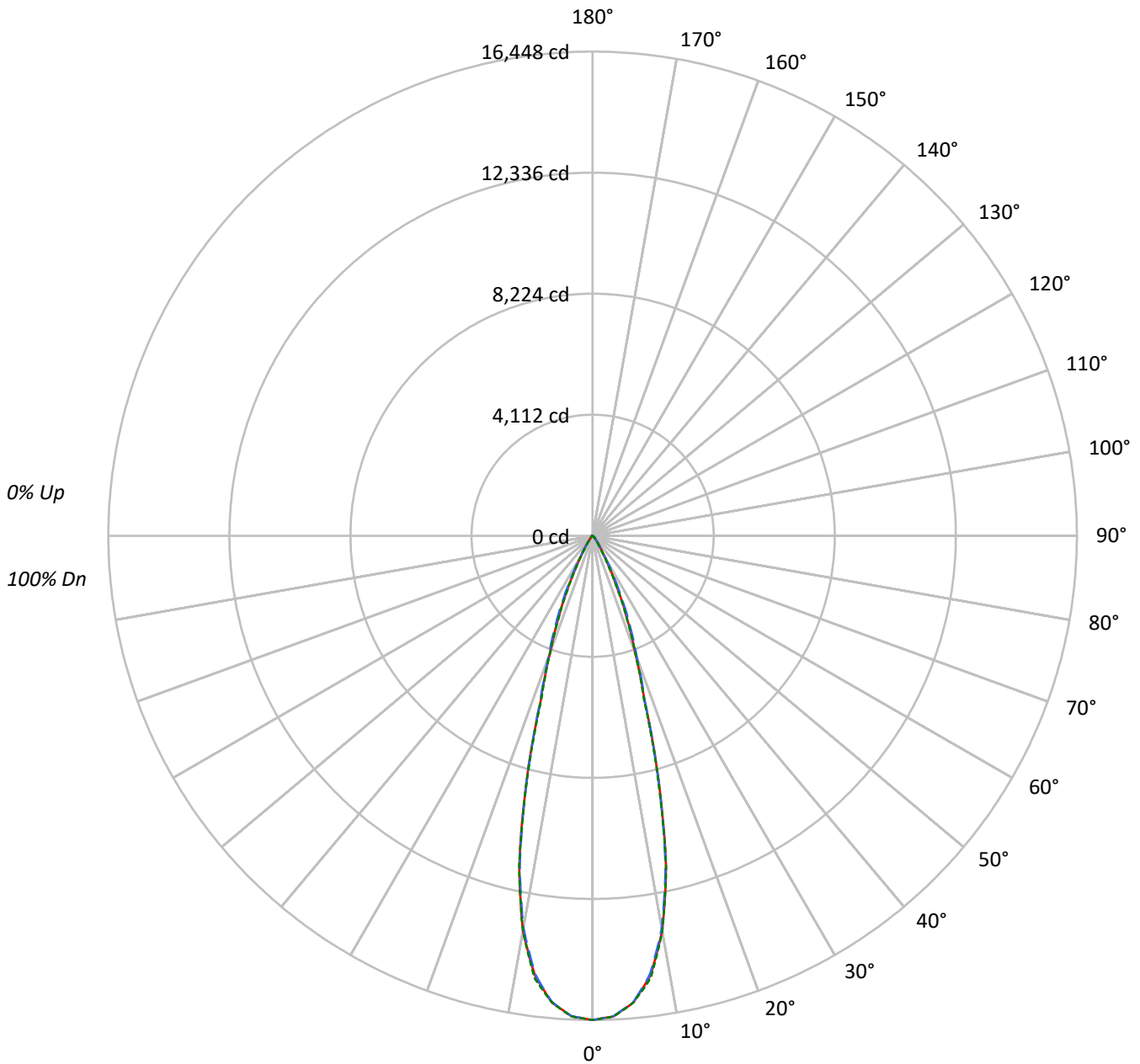
Input Watts (W): 29
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1259016	1259016	1259016
5°	1222872	1221443	1222934
10°	1059194	1051725	1058946
15°	691075	687359	683904
20°	343638	356532	343173
25°	173102	195195	169554
30°	69302	75516	60384
35°	32144	30789	25809
40°	13879	15408	13070
45°	9786	12156	9883
50°	3370	8848	3561
55°	1935	3670	2042
60°	1362	1607	1362
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12156 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1446.4	28.3
10°-20°	2329.4	45.5
20°-30°	1006.6	19.7
30°-40°	229.4	4.5
40°-50°	78.8	1.5
50°-60°	19.2	0.4
60°-70°	5.0	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°	4782.4	93.5
0°-40°	5011.8	98.0
0°-60°	5109.9	99.9
0°-90°	5115.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5115.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16448	16448	16448	16448	16448	
5°	15915	15900	15897	15930	15916	1448
15°	8721	8616	8674	8646	8630	2335
25°	2050	2127	2311	2073	2008	981
35°	344	351	330	327	276	233
45°	90	112	112	112	91	64
55°	14	15	28	16	15	14
65°	5	5	5	5	5	5
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°	16448.4	16448.4	16448.4	16448.4	16448.4
2.5°	16339.4	16328.1	16334.5	16342.6	16345.9
5°	15915.4	15900.1	15896.8	15930.0	15916.2
7.5°	15060.2	15038.4	15005.3	15080.4	15150.7
10°	13627.6	13603.4	13531.5	13567.0	13624.4
12.5°	11512.6	11434.3	11432.6	11545.7	11530.4
15°	8720.9	8615.9	8674.0	8645.8	8630.4
17.5°	5864.5	5824.1	5901.7	5878.2	5777.3
20°	4218.7	4229.2	4377.0	4302.7	4213.0
22.5°	3078.4	3116.4	3291.6	3100.2	3030.0
25°	2049.6	2127.1	2311.2	2073.0	2007.6
27.5°	1260.6	1296.1	1482.7	1244.5	1208.9
30°	784.1	766.4	854.4	733.3	683.2
32.5°	514.4	491.8	520.1	466.8	426.4
35°	344.0	351.3	329.5	327.1	276.2
37.5°	214.8	247.1	218.0	232.6	177.7
40°	138.9	179.3	154.2	170.4	130.8
42.5°	113.9	138.1	126.8	134.9	116.3
45°	90.4	112.3	112.3	112.3	91.3
47.5°	50.1	75.1	96.1	76.7	53.3
50°	28.3	38.0	74.3	39.6	29.9
52.5°	19.4	21.8	50.9	22.6	20.2
55°	14.5	15.3	27.5	16.2	15.3
57.5°	11.3	12.1	14.5	12.1	11.3
60°	8.9	8.9	10.5	9.7	8.9
62.5°	6.5	6.5	7.3	6.5	6.5
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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