

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: P790210

Luminaire Tested: LER6D20D010-EC6DR3020359040-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790210
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: LER6D20D010-EC6DR3020359040-6LBDDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 3163.2 lumens
Efficiency: N/A
Efficacy: 136.9 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

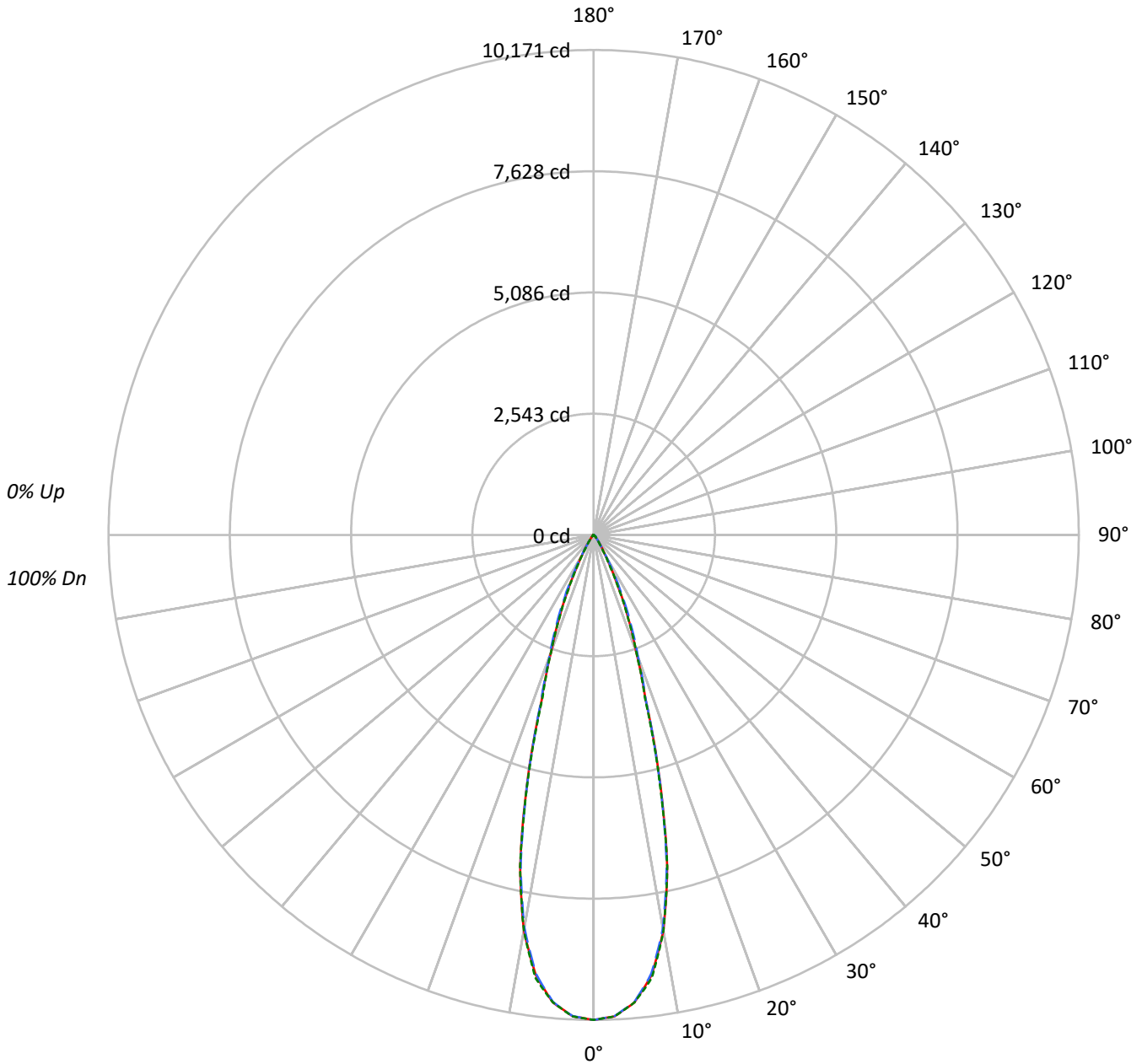
Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P790210
CATALOG NUMBER: LER6D20D010-EC6DR3020359040-6LB DP1MW

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°	778531	778531	778531
5°	756179	755296	756218
10°	654966	650349	654811
15°	427337	425039	422899
20°	212494	220468	212209
25°	107040	120705	104844
30°	42858	46694	37343
35°	19875	19034	15960
40°	8583	9532	8084
45°	6051	7512	6105
50°	2084	5466	2203
55°	1201	2269	1268
60°	842	995	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: 7512 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.4	28.3
10°-20°	1440.4	45.5
20°-30°	622.4	19.7
30°-40°	141.9	4.5
40°-50°	48.7	1.5
50°-60°	11.9	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°	2957.3	93.5
0°-40°	3099.1	98.0
0°-60°	3159.8	99.9
0°-90°	3163.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3163.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10171	10171	10171	10171	10171	
5°	9842	9832	9830	9850	9842	895
15°	5393	5328	5364	5346	5337	1444
25°	1267	1315	1429	1282	1241	607
35°	213	217	204	202	171	144
45°	56	69	69	69	56	40
55°	9	10	17	10	10	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°	10171.1	10171.1	10171.1	10171.1	10171.1
2.5°	10103.7	10096.7	10100.7	10105.7	10107.7
5°	9841.5	9832.0	9830.0	9850.5	9842.0
7.5°	9312.7	9299.2	9278.7	9325.2	9368.6
10°	8426.8	8411.8	8367.4	8389.4	8424.8
12.5°	7119.0	7070.5	7069.5	7139.4	7130.0
15°	5392.7	5327.7	5363.7	5346.2	5336.7
17.5°	3626.4	3601.4	3649.4	3634.9	3572.5
20°	2608.7	2615.2	2706.6	2660.6	2605.2
22.5°	1903.6	1927.1	2035.4	1917.1	1873.6
25°	1267.4	1315.3	1429.2	1281.9	1241.4
27.5°	779.5	801.5	916.8	769.5	747.6
30°	484.9	473.9	528.3	453.4	422.5
32.5°	318.1	304.1	321.6	288.6	263.7
35°	212.7	217.2	203.7	202.2	170.8
37.5°	132.8	152.8	134.8	143.8	109.9
40°	85.9	110.9	95.4	105.4	80.9
42.5°	70.4	85.4	78.4	83.4	71.9
45°	55.9	69.4	69.4	69.4	56.4
47.5°	31.0	46.4	59.4	47.4	33.0
50°	17.5	23.5	45.9	24.5	18.5
52.5°	12.0	13.5	31.5	14.0	12.5
55°	9.0	9.5	17.0	10.0	9.5
57.5°	7.0	7.5	9.0	7.5	7.0
60°	5.5	5.5	6.5	6.0	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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