

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: P773412

Luminaire Tested: LD6D90BD010-EU6DR3070959027-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773412
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: LD6D90BD010-EU6DR3070959027-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10352.8 lumens
Efficiency: N/A
Efficacy: 104.7 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): 98.9
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

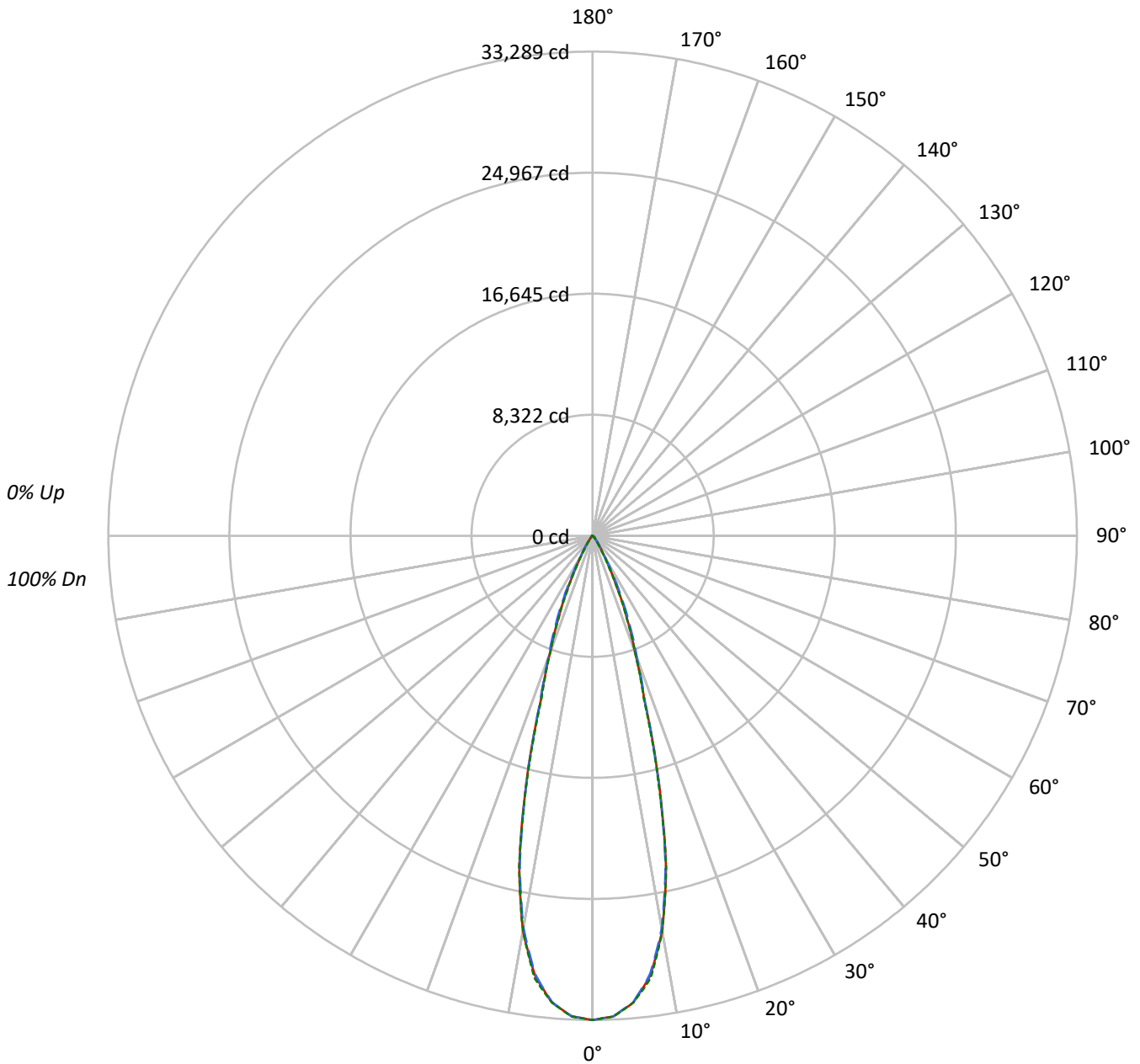


Downlight

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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°	2548084	2548084	2548084
5°	2474934	2472045	2475057
10°	2143665	2128547	2143159
15°	1398633	1391121	1384131
20°	695478	721568	694541
25°	350333	395053	343154
30°	140267	152835	122210
35°	65064	62307	52234
40°	28088	31195	26459
45°	19820	24594	19994
50°	6811	17910	7204
55°	3923	7420	4150
60°	2756	3245	2756
65°	1775	1775	1775
70°	1097	739	1097
75°	0	473	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 24594 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2927.3	28.3
10°-20°	4714.4	45.5
20°-30°	2037.2	19.7
30°-40°	464.3	4.5
40°-50°	159.4	1.5
50°-60°	39.0	0.4
60°-70°	10.1	0.1
70°-80°	1.1	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°	9679.0	93.5
0°-40°	10143.3	98.0
0°-60°	10341.7	99.9
0°-90°	10352.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10352.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33289	33289	33289	33289	33289	
5°	32211	32180	32173	32240	32212	2930
15°	17650	17437	17555	17498	17467	4726
25°	4148	4305	4678	4196	4063	1986
35°	696	711	667	662	559	472
45°	183	227	227	227	185	130
55°	29	31	56	33	31	29
65°	10	10	10	10	10	10
75°	0	0	2	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°	33289.4	33289.4	33289.4	33289.4	33289.4
2.5°	33068.7	33045.9	33058.9	33075.3	33081.8
5°	32210.7	32179.6	32173.1	32240.1	32212.3
7.5°	30479.9	30435.7	30368.7	30520.7	30662.9
10°	27580.4	27531.4	27385.9	27457.9	27573.9
12.5°	23300.0	23141.4	23138.1	23367.0	23335.9
15°	17649.8	17437.4	17555.0	17497.8	17466.8
17.5°	11869.0	11787.3	11944.2	11896.8	11692.5
20°	8538.1	8559.3	8858.4	8708.1	8526.6
22.5°	6230.3	6307.1	6661.8	6274.4	6132.3
25°	4148.1	4305.0	4677.6	4195.5	4063.1
27.5°	2551.3	2623.2	3000.8	2518.6	2446.7
30°	1587.0	1551.0	1729.2	1484.0	1382.7
32.5°	1041.1	995.3	1052.6	944.7	863.0
35°	696.3	711.0	666.8	661.9	559.0
37.5°	434.7	500.1	441.3	470.7	359.6
40°	281.1	362.8	312.2	344.9	264.8
42.5°	230.4	279.5	256.6	272.9	235.4
45°	183.1	227.2	227.2	227.2	184.7
47.5°	101.3	152.0	194.5	155.3	107.9
50°	57.2	76.8	150.4	80.1	60.5
52.5°	39.2	44.1	103.0	45.8	40.9
55°	29.4	31.1	55.6	32.7	31.1
57.5°	22.9	24.5	29.4	24.5	22.9
60°	18.0	18.0	21.2	19.6	18.0
62.5°	13.1	13.1	14.7	13.1	13.1
65°	9.8	9.8	9.8	9.8	9.8
67.5°	4.9	6.5	6.5	6.5	6.5
70°	4.9	3.3	3.3	3.3	4.9
72.5°	3.3	1.6	1.6	1.6	1.6
75°	0.0	0.0	1.6	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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