

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: P772615

Luminaire Tested: LD6D85BD010-EU6DR3070959024-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772615
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: LD6D85BD010-EU6DR3070959024-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7680.6 lumens
Efficiency: N/A
Efficacy: 87.6 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): 87.7
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

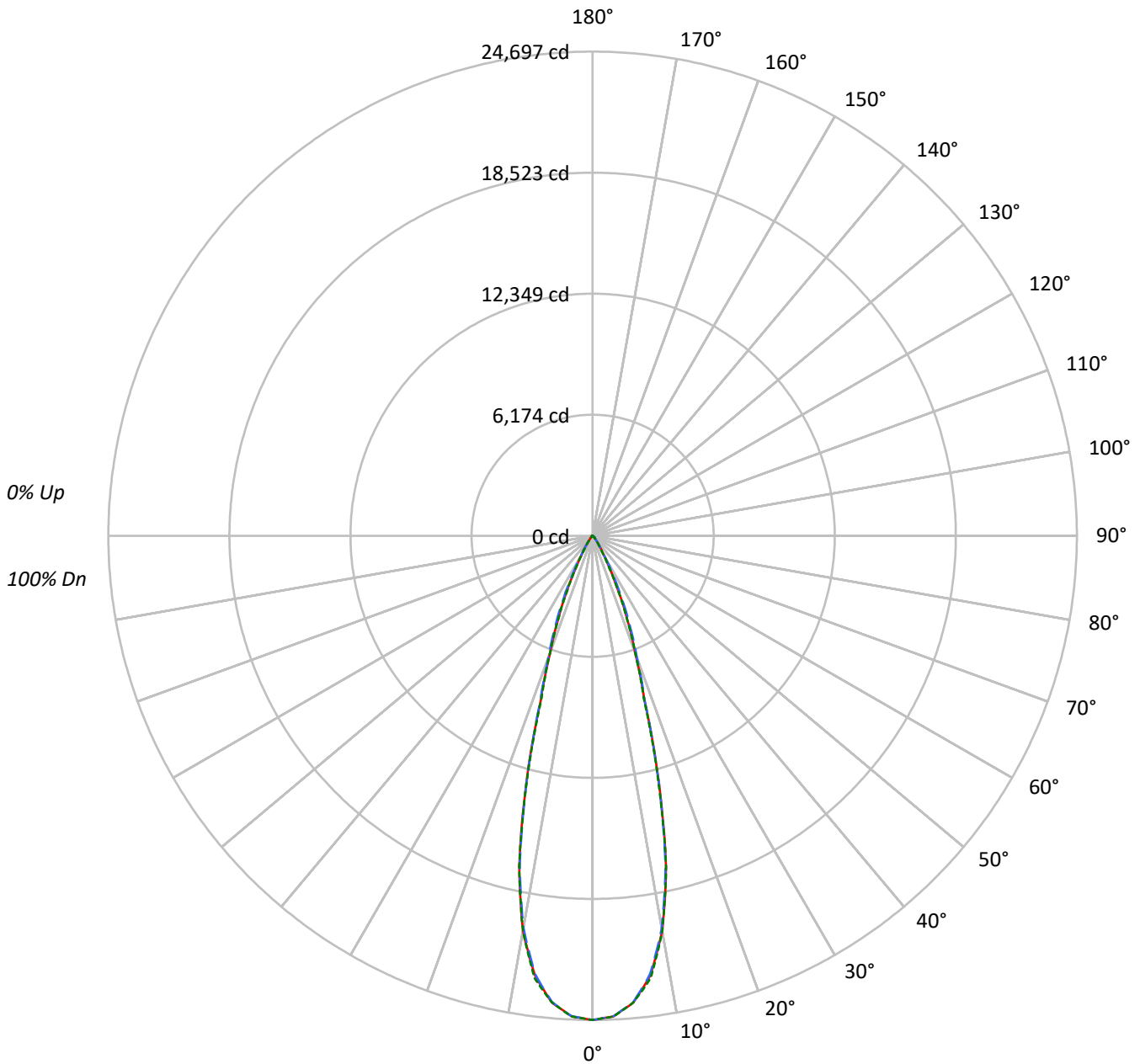


Downlight

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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°	1890377	1890377	1890377
5°	1836114	1833970	1836206
10°	1590354	1579138	1589973
15°	1037623	1032052	1026862
20°	515965	535319	515273
25°	259906	293089	254585
30°	104064	113389	90665
35°	48263	46226	38750
40°	20843	23142	19624
45°	14700	18240	14830
50°	5049	13289	5347
55°	2909	5498	3069
60°	2036	2419	2036
65°	1322	1322	1322
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18240 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2171.7	28.3
10°-20°	3497.6	45.5
20°-30°	1511.4	19.7
30°-40°	344.5	4.5
40°-50°	118.3	1.5
50°-60°	28.9	0.4
60°-70°	7.5	0.1
70°-80°	0.8	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°	7180.7	93.5
0°-40°	7525.2	98.0
0°-60°	7672.3	99.9
0°-90°	7680.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7680.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24697	24697	24697	24697	24697	
5°	23897	23874	23869	23918	23898	2174
15°	13094	12936	13024	12981	12958	3506
25°	3077	3194	3470	3113	3014	1473
35°	516	528	495	491	415	350
45°	136	168	168	168	137	96
55°	22	23	41	24	23	21
65°	7	7	7	7	7	7
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°	24696.8	24696.8	24696.8	24696.8	24696.8
2.5°	24533.1	24516.2	24525.9	24538.0	24542.8
5°	23896.6	23873.5	23868.7	23918.4	23897.8
7.5°	22612.5	22579.8	22530.0	22642.8	22748.3
10°	20461.5	20425.1	20317.2	20370.5	20456.6
12.5°	17285.8	17168.2	17165.8	17335.6	17312.5
15°	13094.1	12936.5	13023.8	12981.4	12958.3
17.5°	8805.4	8744.8	8861.2	8826.0	8674.4
20°	6334.3	6350.0	6571.9	6460.4	6325.8
22.5°	4622.2	4679.2	4942.3	4654.9	4549.4
25°	3077.4	3193.8	3470.3	3112.6	3014.4
27.5°	1892.8	1946.1	2226.2	1868.5	1815.2
30°	1177.4	1150.7	1282.9	1101.0	1025.8
32.5°	772.4	738.4	780.9	700.8	640.2
35°	516.5	527.5	494.7	491.1	414.7
37.5°	322.5	371.0	327.4	349.2	266.8
40°	208.6	269.2	231.6	255.8	196.4
42.5°	171.0	207.3	190.4	202.5	174.6
45°	135.8	168.5	168.5	168.5	137.0
47.5°	75.2	112.8	144.3	115.2	80.0
50°	42.4	57.0	111.6	59.4	44.9
52.5°	29.1	32.7	76.4	34.0	30.3
55°	21.8	23.0	41.2	24.3	23.0
57.5°	17.0	18.2	21.8	18.2	17.0
60°	13.3	13.3	15.8	14.6	13.3
62.5°	9.7	9.7	10.9	9.7	9.7
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.6	4.9	4.9	4.9	4.9
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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