

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: P772671

Luminaire Tested: LD6D85BD010-EU6DR3070959040-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772671
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-EU6DR3070959040-6LBS1MW
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: 10634.7 lumens
Efficiency: N/A
Efficacy: 121.3 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

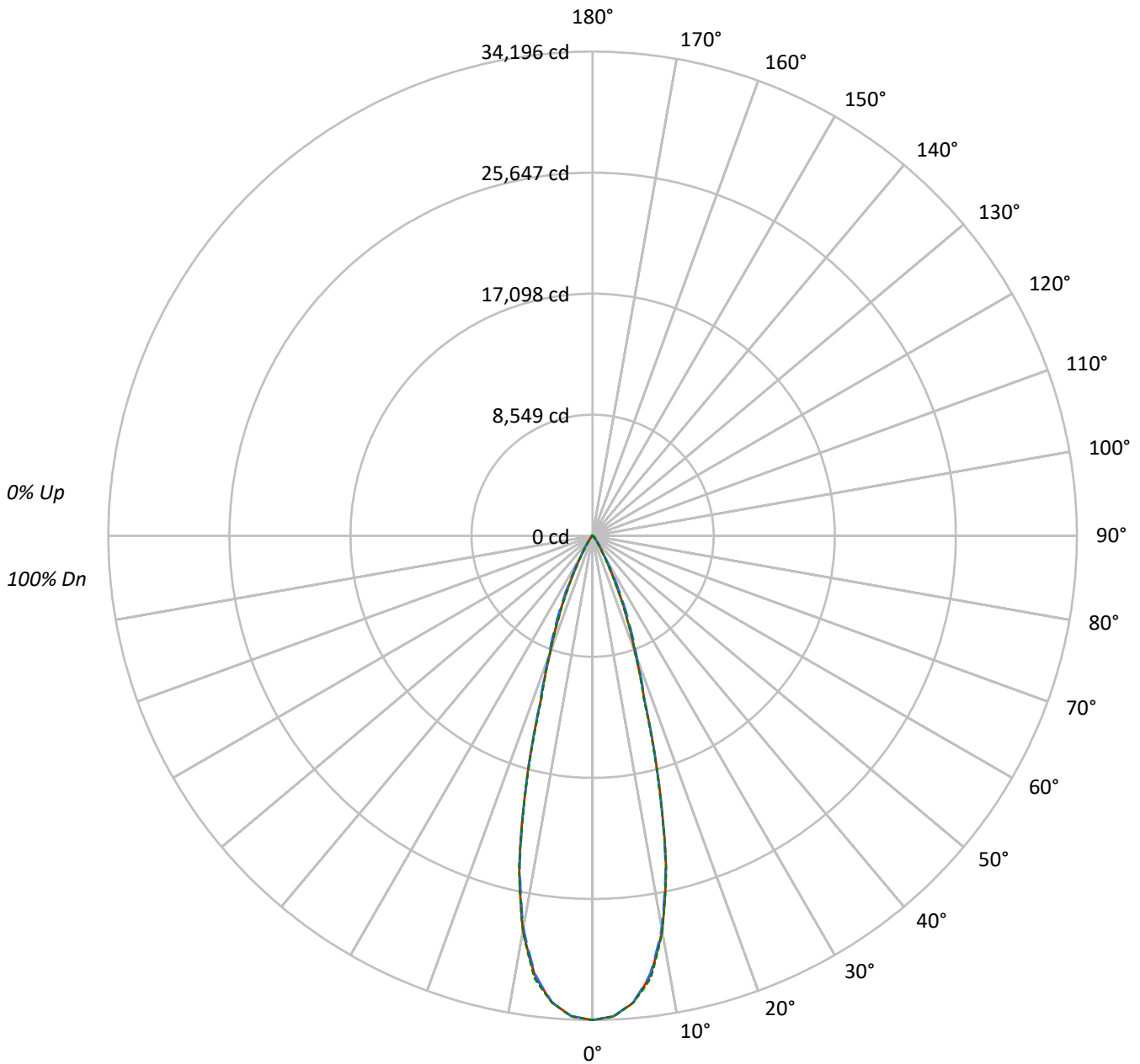


Downlight

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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°	2617455	2617455	2617455
5°	2542312	2539346	2542442
10°	2202028	2186498	2201507
15°	1436717	1428999	1421812
20°	714408	741215	713455
25°	359868	405812	352495
30°	144085	156998	125533
35°	66830	64008	53655
40°	28857	32044	27178
45°	20351	25265	20535
50°	7002	18398	7395
55°	4030	7620	4257
60°	2832	3337	2832
65°	1829	1829	1829
70°	1119	761	1119
75°	0	503	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 25265 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3007.0	28.3
10°-20°	4842.8	45.5
20°-30°	2092.7	19.7
30°-40°	477.0	4.5
40°-50°	163.8	1.5
50°-60°	40.0	0.4
60°-70°	10.4	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°	9942.5	93.5
0°-40°	10419.4	98.0
0°-60°	10623.2	99.9
0°-90°	10634.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10634.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34196	34196	34196	34196	34196	
5°	33088	33056	33049	33118	33089	3009
15°	18130	17912	18033	17974	17942	4855
25°	4261	4422	4805	4310	4174	2040
35°	715	730	685	680	574	485
45°	188	233	233	233	190	133
55°	30	32	57	34	32	29
65°	10	10	10	10	10	10
75°	0	0	2	0	0	2
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°	34195.7	34195.7	34195.7	34195.7	34195.7
2.5°	33969.0	33945.5	33958.9	33975.7	33982.4
5°	33087.6	33055.7	33049.0	33117.8	33089.3
7.5°	31309.6	31264.3	31195.5	31351.6	31497.7
10°	28331.3	28280.9	28131.5	28205.4	28324.6
12.5°	23934.3	23771.4	23768.1	24003.1	23971.2
15°	18130.4	17912.1	18033.0	17974.2	17942.3
17.5°	12192.1	12108.2	12269.3	12220.7	12010.8
20°	8770.5	8792.4	9099.6	8945.1	8758.8
22.5°	6399.9	6478.8	6843.2	6445.3	6299.2
25°	4261.0	4422.2	4805.0	4309.7	4173.7
27.5°	2620.7	2694.6	3082.4	2587.2	2513.3
30°	1630.2	1593.3	1776.3	1524.4	1420.3
32.5°	1069.5	1022.4	1081.2	970.4	886.5
35°	715.2	730.3	685.0	680.0	574.2
37.5°	446.6	513.7	453.3	483.5	369.4
40°	288.8	372.7	320.7	354.2	272.0
42.5°	236.7	287.1	263.6	280.4	241.8
45°	188.0	233.4	233.4	233.4	189.7
47.5°	104.1	156.1	199.8	159.5	110.8
50°	58.8	78.9	154.5	82.3	62.1
52.5°	40.3	45.3	105.8	47.0	42.0
55°	30.2	31.9	57.1	33.6	31.9
57.5°	23.5	25.2	30.2	25.2	23.5
60°	18.5	18.5	21.8	20.1	18.5
62.5°	13.4	13.4	15.1	13.4	13.4
65°	10.1	10.1	10.1	10.1	10.1
67.5°	5.0	6.7	6.7	6.7	6.7
70°	5.0	3.4	3.4	3.4	5.0
72.5°	3.4	1.7	1.7	1.7	1.7
75°	0.0	0.0	1.7	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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