

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: P772628

Luminaire Tested: LD6D85BD010-EU6DR3070959027-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772628
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-EU6DR3070959027-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 8700.4 lumens
Efficiency: N/A
Efficacy: 99.2 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

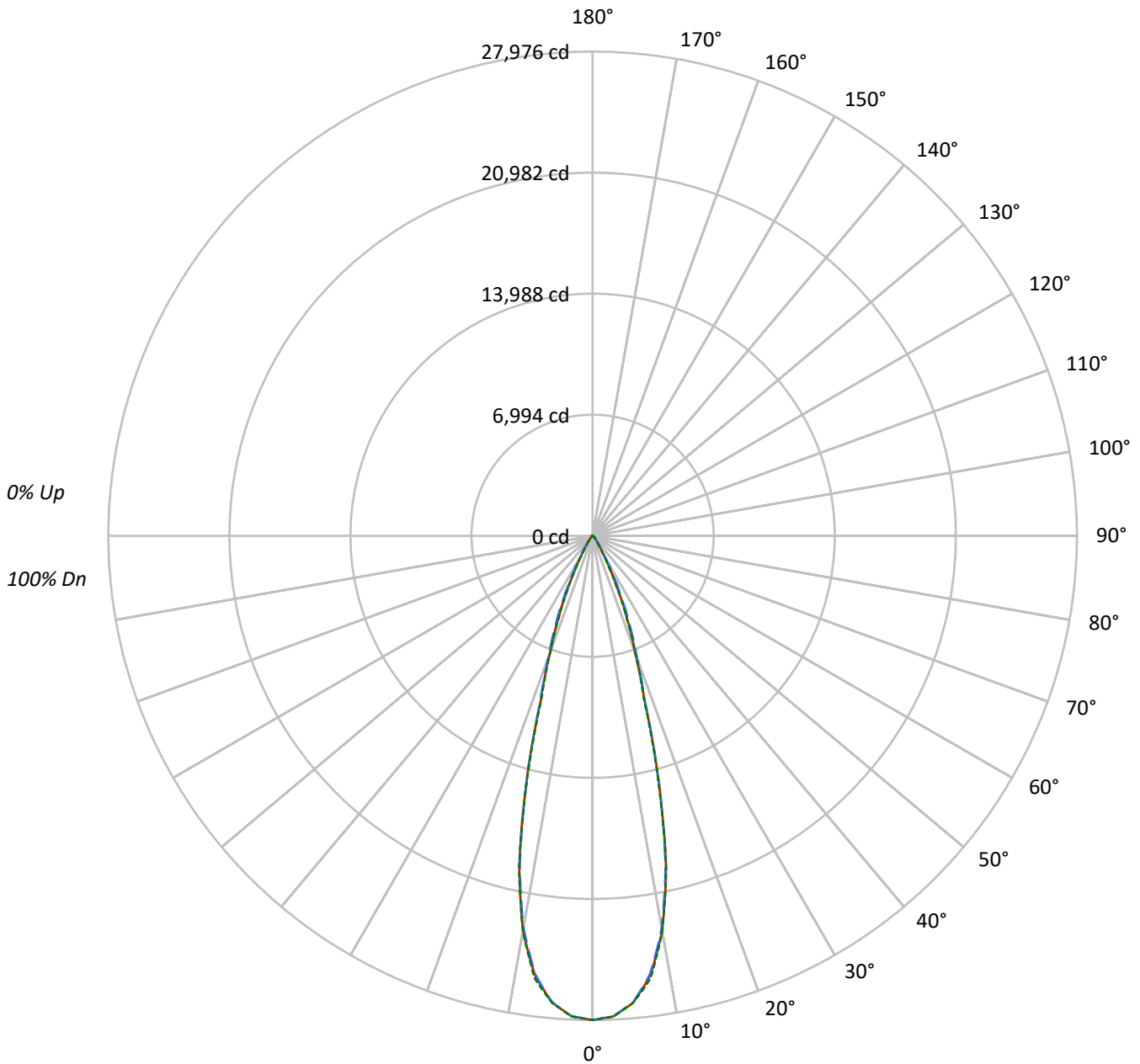


Downlight

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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°	2141386	2141386	2141386
5°	2079906	2077486	2080014
10°	1801515	1788815	1801087
15°	1175404	1169088	1163208
20°	584470	606398	583688
25°	294415	331998	288384
30°	117879	128441	102703
35°	54673	52365	43890
40°	23601	26209	22232
45°	16649	20665	16800
50°	5728	15052	6049
55°	3296	6232	3483
60°	2312	2740	2312
65°	1485	1485	1485
70°	918	604	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 20665 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2460.1	28.3
10°-20°	3962.0	45.5
20°-30°	1712.1	19.7
30°-40°	390.2	4.5
40°-50°	134.0	1.5
50°-60°	32.7	0.4
60°-70°	8.5	0.1
70°-80°	0.9	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°	8134.1	93.5
0°-40°	8524.3	98.0
0°-60°	8691.1	99.9
0°-90°	8700.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8700.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27976	27976	27976	27976	27976	
5°	27070	27044	27038	27094	27071	2462
15°	14833	14654	14753	14705	14679	3972
25°	3486	3618	3931	3526	3415	1669
35°	585	598	560	556	470	397
45°	154	191	191	191	155	109
55°	25	26	47	28	26	24
65°	8	8	8	8	8	8
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°	27976.1	27976.1	27976.1	27976.1	27976.1
2.5°	27790.7	27771.4	27782.4	27796.1	27801.6
5°	27069.5	27043.5	27038.0	27094.3	27070.9
7.5°	25615.0	25577.9	25521.6	25649.3	25768.8
10°	23178.3	23137.1	23014.9	23075.3	23172.8
12.5°	19581.1	19447.8	19445.1	19637.4	19611.3
15°	14832.8	14654.2	14753.1	14705.0	14678.9
17.5°	9974.6	9905.9	10037.8	9997.9	9826.2
20°	7175.3	7193.2	7444.5	7318.2	7165.7
22.5°	5235.9	5300.5	5598.5	5273.0	5153.5
25°	3486.0	3617.9	3931.0	3525.9	3414.6
27.5°	2144.1	2204.5	2521.8	2116.6	2056.2
30°	1333.7	1303.5	1453.2	1247.2	1162.0
32.5°	874.9	836.5	884.6	793.9	725.2
35°	585.1	597.5	560.4	556.3	469.7
37.5°	365.4	420.3	370.9	395.6	302.2
40°	236.2	304.9	262.3	289.8	222.5
42.5°	193.7	234.9	215.6	229.4	197.8
45°	153.8	190.9	190.9	190.9	155.2
47.5°	85.2	127.7	163.5	130.5	90.7
50°	48.1	64.6	126.4	67.3	50.8
52.5°	33.0	37.1	86.5	38.5	34.3
55°	24.7	26.1	46.7	27.5	26.1
57.5°	19.2	20.6	24.7	20.6	19.2
60°	15.1	15.1	17.9	16.5	15.1
62.5°	11.0	11.0	12.4	11.0	11.0
65°	8.2	8.2	8.2	8.2	8.2
67.5°	4.1	5.5	5.5	5.5	5.5
70°	4.1	2.7	2.7	2.7	4.1
72.5°	2.7	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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