

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: P773405

Luminaire Tested: LD6D90BD010-EU6DR3070959027-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773405
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-EU6DR3070959027-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8330.2 lumens
Efficiency: N/A
Efficacy: 84.2 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

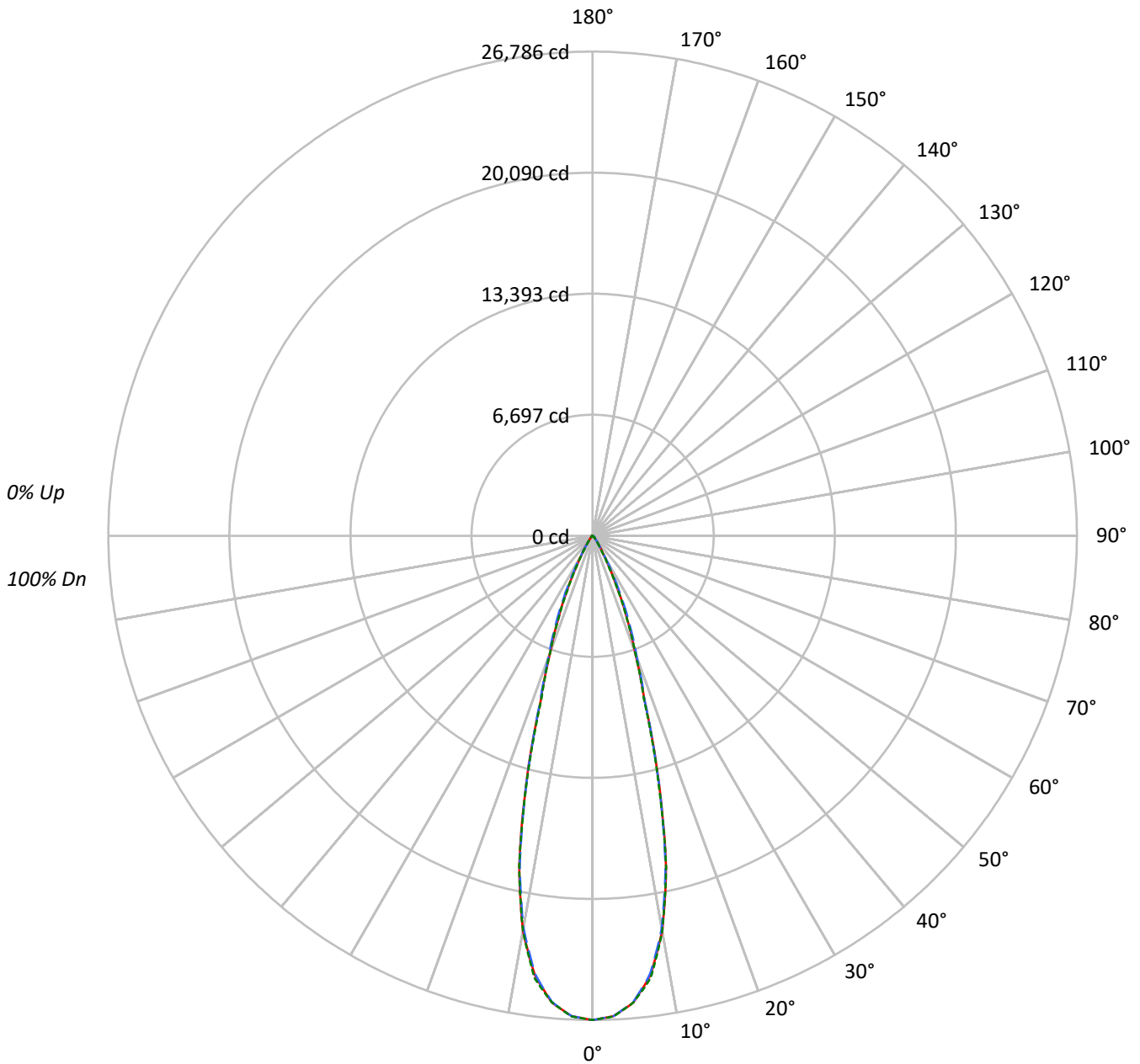
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	2050253	2050253	2050253
5°	1991391	1989071	1991499
10°	1724848	1712684	1724444
15°	1125377	1119331	1113705
20°	559601	580592	558852
25°	281890	317877	276113
30°	112858	122978	98337
35°	52346	50141	42030
40°	22602	25100	21283
45°	15945	19788	16086
50°	5478	14409	5799
55°	3163	5965	3336
60°	2220	2618	2220
65°	1431	1431	1431
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19788 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2355.4	28.3
10°-20°	3793.4	45.5
20°-30°	1639.2	19.7
30°-40°	373.6	4.5
40°-50°	128.3	1.5
50°-60°	31.3	0.4
60°-70°	8.1	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°	7788.0	93.5
0°-40°	8161.6	98.0
0°-60°	8321.2	99.9
0°-90°	8330.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8330.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26786	26786	26786	26786	26786	
5°	25918	25893	25887	25941	25919	2357
15°	14202	14031	14125	14079	14054	3803
25°	3338	3464	3764	3376	3269	1598
35°	560	572	537	533	450	380
45°	147	183	183	183	149	105
55°	24	25	45	26	25	23
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°	26785.5	26785.5	26785.5	26785.5	26785.5
2.5°	26608.0	26589.5	26600.1	26613.2	26618.5
5°	25917.5	25892.6	25887.3	25941.2	25918.9
7.5°	24524.9	24489.4	24435.4	24557.8	24672.2
10°	22191.9	22152.5	22035.4	22093.3	22186.7
12.5°	18747.7	18620.2	18617.5	18801.7	18776.7
15°	14201.5	14030.6	14125.2	14079.2	14054.2
17.5°	9550.1	9484.3	9610.6	9572.4	9408.1
20°	6870.0	6887.1	7127.7	7006.7	6860.8
22.5°	5013.1	5074.9	5360.3	5048.6	4934.2
25°	3337.7	3463.9	3763.8	3375.8	3269.3
27.5°	2052.8	2110.7	2414.5	2026.5	1968.7
30°	1276.9	1248.0	1391.4	1194.1	1112.6
32.5°	837.7	800.9	846.9	760.1	694.4
35°	560.2	572.1	536.6	532.6	449.8
37.5°	349.8	402.4	355.1	378.7	289.3
40°	226.2	291.9	251.2	277.5	213.0
42.5°	185.4	224.9	206.5	219.6	189.4
45°	147.3	182.8	182.8	182.8	148.6
47.5°	81.5	122.3	156.5	124.9	86.8
50°	46.0	61.8	121.0	64.4	48.7
52.5°	31.6	35.5	82.8	36.8	32.9
55°	23.7	25.0	44.7	26.3	25.0
57.5°	18.4	19.7	23.7	19.7	18.4
60°	14.5	14.5	17.1	15.8	14.5
62.5°	10.5	10.5	11.8	10.5	10.5
65°	7.9	7.9	7.9	7.9	7.9
67.5°	3.9	5.3	5.3	5.3	5.3
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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