

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: P773431

Luminaire Tested: LD6D90BD010-EU6DR3070959035-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773431
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-EU6DR3070959035-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8672.3 lumens
Efficiency: N/A
Efficacy: 87.7 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

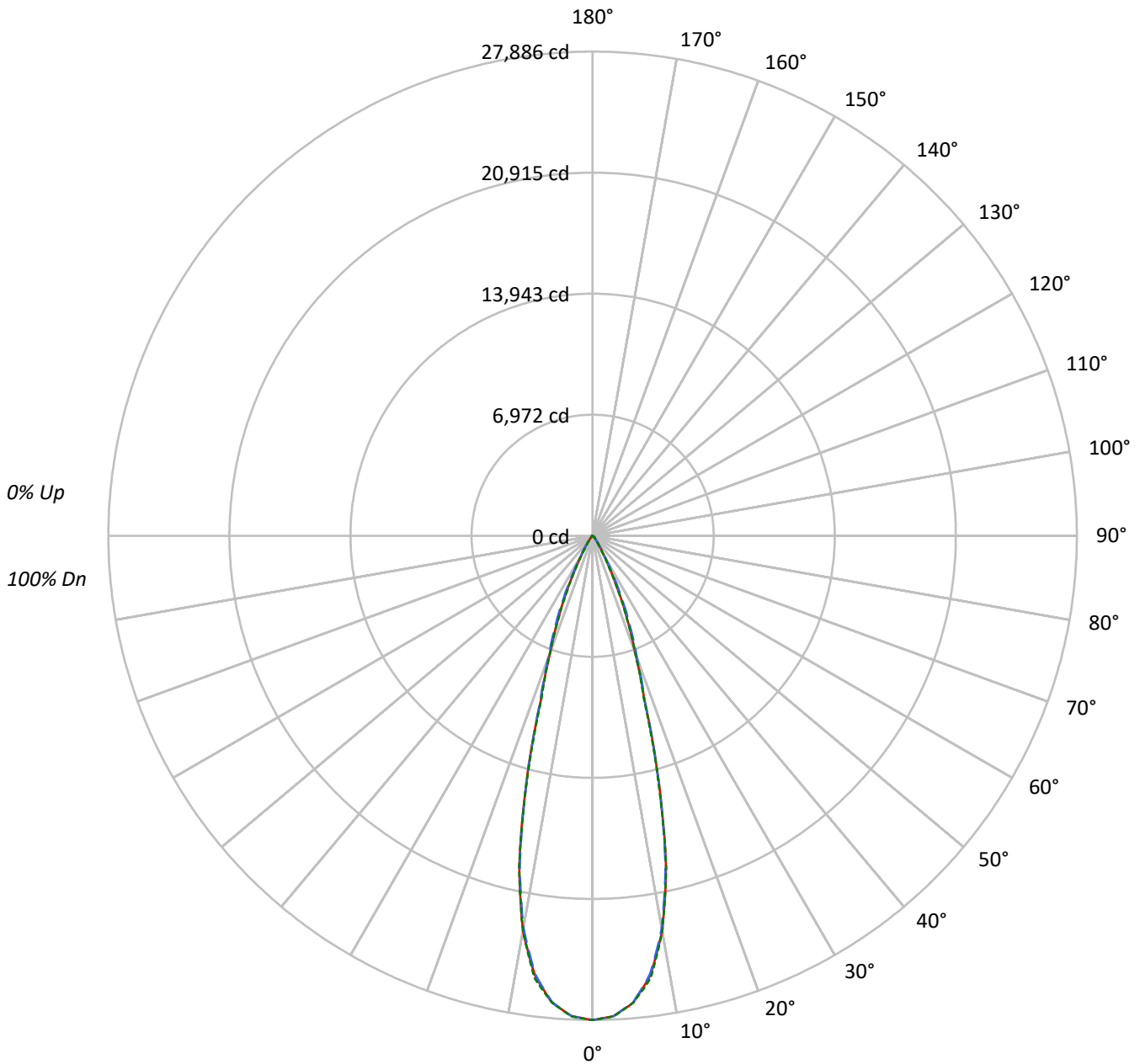
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2134459	2134459	2134459
5°	2073183	2070763	2073291
10°	1795693	1783032	1795266
15°	1171600	1165308	1159452
20°	582580	604443	581798
25°	293460	330925	287455
30°	117499	128025	102367
35°	54496	52197	43750
40°	23531	26129	22162
45°	16595	20600	16746
50°	5704	15004	6037
55°	3283	6205	3470
60°	2312	2725	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: 20600 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2452.1	28.3
10°-20°	3949.2	45.5
20°-30°	1706.5	19.7
30°-40°	389.0	4.5
40°-50°	133.5	1.5
50°-60°	32.6	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°	8107.8	93.5
0°-40°	8496.8	98.0
0°-60°	8662.9	99.9
0°-90°	8672.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8672.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27886	27886	27886	27886	27886	
5°	26982	26956	26950	27007	26983	2454
15°	14785	14607	14705	14658	14632	3959
25°	3475	3606	3918	3514	3404	1663
35°	583	596	559	554	468	396
45°	153	190	190	190	155	109
55°	25	26	46	27	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°	27885.6	27885.6	27885.6	27885.6	27885.6
2.5°	27700.8	27681.6	27692.6	27706.3	27711.7
5°	26982.0	26956.0	26950.5	27006.7	26983.4
7.5°	25532.1	25495.2	25439.0	25566.4	25685.5
10°	23103.4	23062.3	22940.5	23000.7	23097.9
12.5°	19517.7	19384.9	19382.2	19573.9	19547.9
15°	14784.8	14606.8	14705.4	14657.5	14631.5
17.5°	9942.3	9873.9	10005.3	9965.6	9794.5
20°	7152.1	7169.9	7420.5	7294.5	7142.5
22.5°	5219.0	5283.3	5580.4	5255.9	5136.8
25°	3474.7	3606.2	3918.3	3514.5	3403.6
27.5°	2137.1	2197.4	2513.6	2109.8	2049.5
30°	1329.4	1299.3	1448.5	1243.1	1158.2
32.5°	872.1	833.8	881.7	791.3	722.9
35°	583.2	595.6	558.6	554.5	468.2
37.5°	364.2	418.9	369.7	394.3	301.2
40°	235.5	303.9	261.5	288.9	221.8
42.5°	193.0	234.1	214.9	228.6	197.1
45°	153.3	190.3	190.3	190.3	154.7
47.5°	84.9	127.3	162.9	130.1	90.4
50°	47.9	64.3	126.0	67.1	50.7
52.5°	32.9	37.0	86.3	38.3	34.2
55°	24.6	26.0	46.5	27.4	26.0
57.5°	19.2	20.5	24.6	20.5	19.2
60°	15.1	15.1	17.8	16.4	15.1
62.5°	11.0	11.0	12.3	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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