

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P773421

Luminaire Tested: LD6D90BD010-EU6DR3070959030-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773421
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-EU6DR3070959030-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9508.9 lumens
Efficiency: N/A
Efficacy: 96.1 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

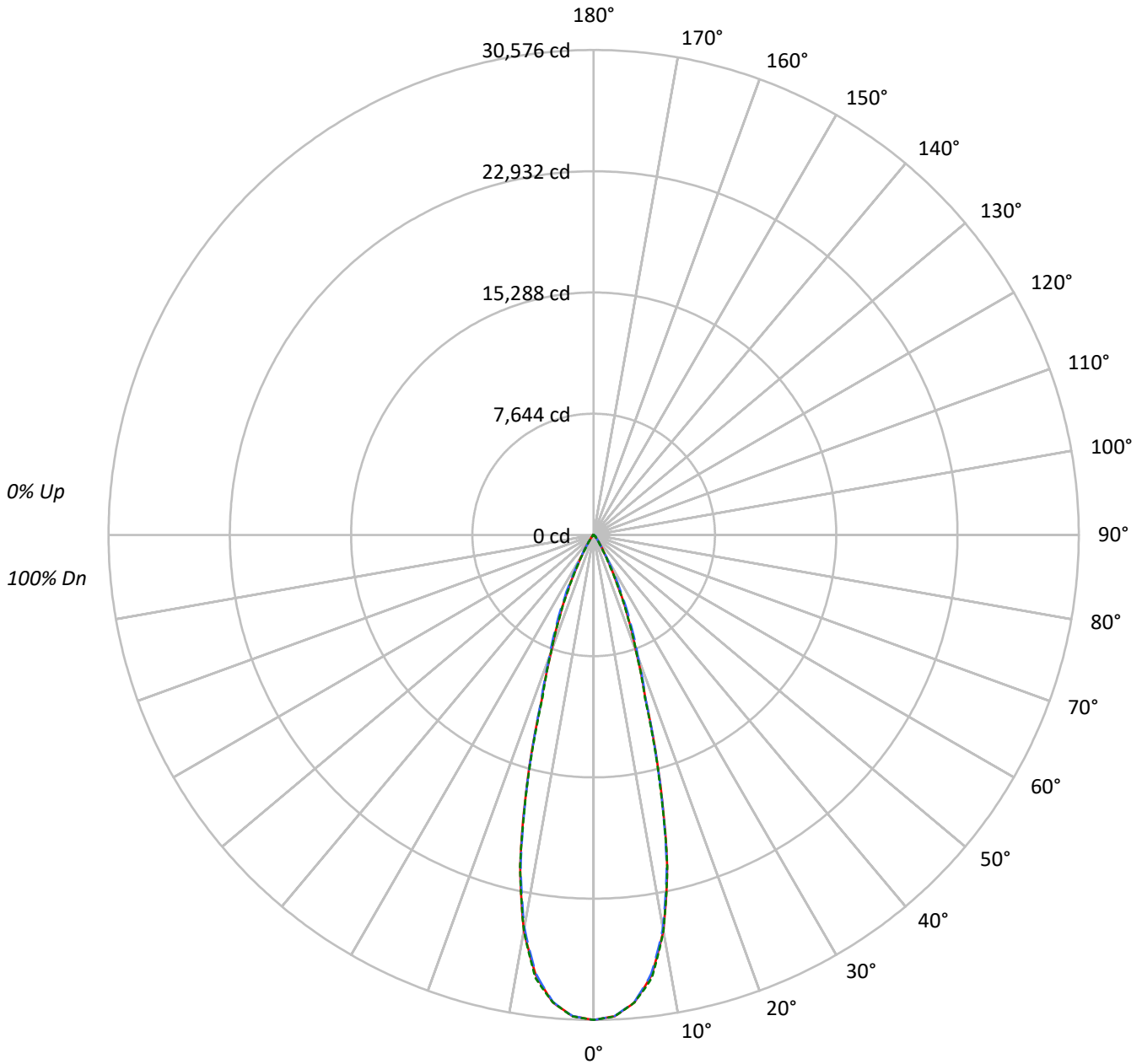
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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																			
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°	2340368	2340368	2340368
5°	2273179	2270528	2273294
10°	1968917	1955036	1968451
15°	1284617	1277723	1271296
20°	638784	662749	637929
25°	321770	362850	315182
30°	128830	140373	112249
35°	59756	57233	47973
40°	25799	28647	24301
45°	18197	22592	18359
50°	6252	16445	6609
55°	3603	6806	3803
60°	2526	2985	2526
65°	1630	1630	1630
70°	1007	671	1007
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22592 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2688.7	28.3
10°-20°	4330.1	45.5
20°-30°	1871.2	19.7
30°-40°	426.5	4.5
40°-50°	146.4	1.5
50°-60°	35.8	0.4
60°-70°	9.3	0.1
70°-80°	1.0	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°	8890.0	93.5
0°-40°	9316.4	98.0
0°-60°	9498.6	99.9
0°-90°	9508.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9508.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30576	30576	30576	30576	30576	
5°	29585	29556	29550	29612	29586	2691
15°	16211	16016	16124	16071	16043	4341
25°	3810	3954	4296	3854	3732	1824
35°	640	653	612	608	513	434
45°	168	209	209	209	170	119
55°	27	28	51	30	28	26
65°	9	9	9	9	9	9
75°	0	0	2	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°	30575.7	30575.7	30575.7	30575.7	30575.7
2.5°	30373.0	30352.0	30364.0	30379.0	30385.0
5°	29584.9	29556.4	29550.4	29611.9	29586.4
7.5°	27995.2	27954.6	27893.1	28032.7	28163.3
10°	25332.1	25287.1	25153.5	25219.5	25326.1
12.5°	21400.6	21254.9	21251.9	21462.1	21433.6
15°	16211.0	16015.9	16124.0	16071.4	16042.9
17.5°	10901.4	10826.4	10970.5	10927.0	10739.3
20°	7842.1	7861.6	8136.3	7998.2	7831.6
22.5°	5722.4	5793.0	6118.7	5763.0	5632.4
25°	3809.9	3954.1	4296.3	3853.5	3731.9
27.5°	2343.3	2409.4	2756.1	2313.3	2247.2
30°	1457.6	1424.6	1588.2	1363.1	1270.0
32.5°	956.2	914.2	966.7	867.7	792.6
35°	639.5	653.0	612.5	608.0	513.4
37.5°	399.3	459.4	405.3	432.3	330.3
40°	258.2	333.3	286.7	316.7	243.2
42.5°	211.7	256.7	235.7	250.7	216.2
45°	168.1	208.7	208.7	208.7	169.6
47.5°	93.1	139.6	178.6	142.6	99.1
50°	52.5	70.6	138.1	73.6	55.5
52.5°	36.0	40.5	94.6	42.0	37.5
55°	27.0	28.5	51.0	30.0	28.5
57.5°	21.0	22.5	27.0	22.5	21.0
60°	16.5	16.5	19.5	18.0	16.5
62.5°	12.0	12.0	13.5	12.0	12.0
65°	9.0	9.0	9.0	9.0	9.0
67.5°	4.5	6.0	6.0	6.0	6.0
70°	4.5	3.0	3.0	3.0	4.5
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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