

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: P772648

Luminaire Tested: LD6D85BD010-EU6DR3070959035-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772648
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-EU6DR3070959035-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

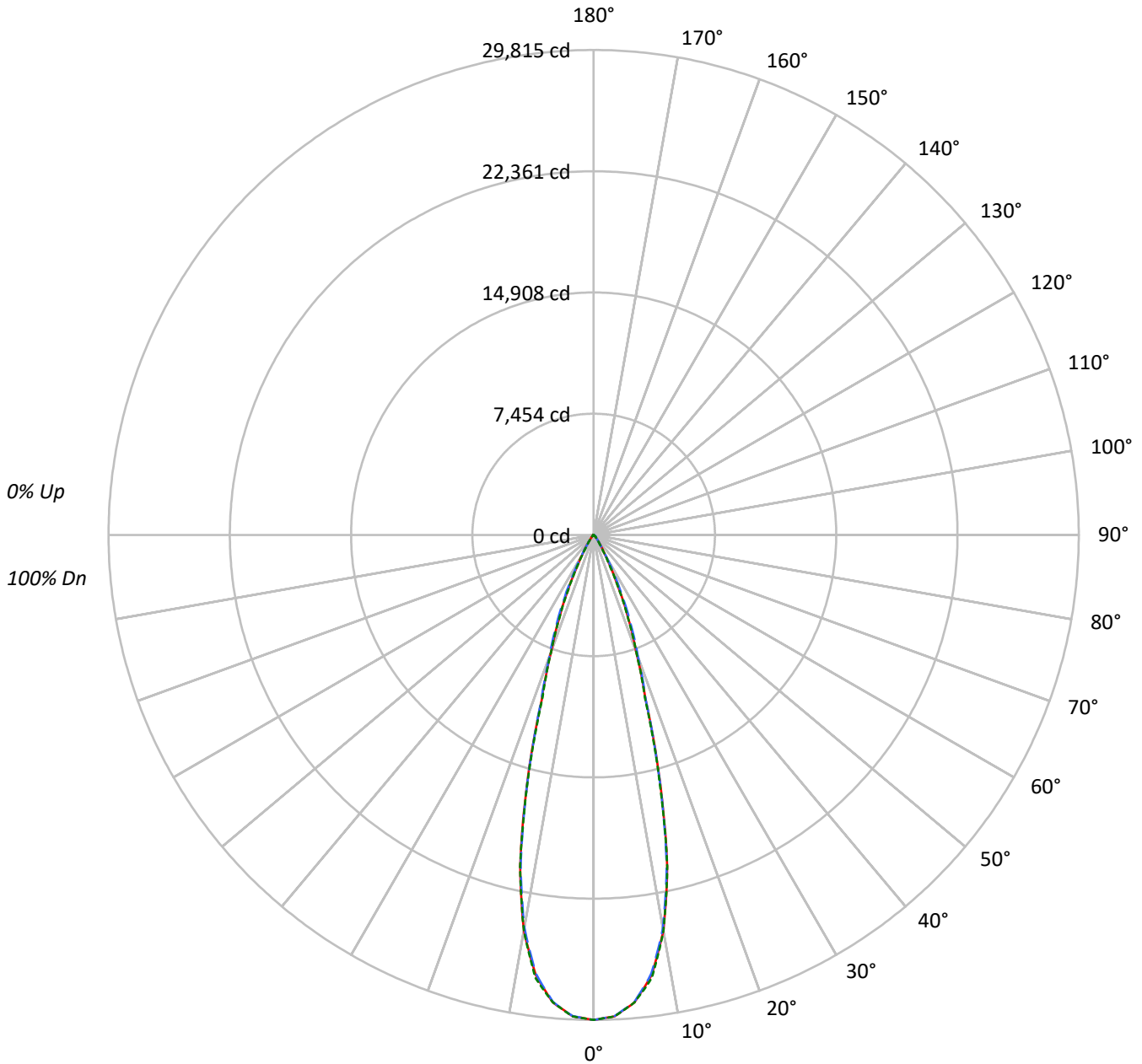
Lumens per Lamp: N/A
Luminaire Lumens: 9272.3 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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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°	2282141	2282141	2282141
5°	2216628	2214038	2216735
10°	1919935	1906396	1919477
15°	1252658	1245931	1239670
20°	622892	646262	622053
25°	313772	353821	307336
30°	125630	136881	109456
35°	58271	55804	46777
40°	25160	27938	23691
45°	17742	22029	17904
50°	6097	16040	6454
55°	3510	6646	3710
60°	2465	2909	2465
65°	1594	1594	1594
70°	985	649	985
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 22029 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2621.8	28.3
10°-20°	4222.4	45.5
20°-30°	1824.6	19.7
30°-40°	415.9	4.5
40°-50°	142.8	1.5
50°-60°	34.9	0.4
60°-70°	9.1	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°	8668.8	93.5
0°-40°	9084.6	98.0
0°-60°	9262.3	99.9
0°-90°	9272.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9272.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29815	29815	29815	29815	29815	
5°	28849	28821	28815	28875	28850	2624
15°	15808	15617	15723	15672	15644	4233
25°	3715	3856	4189	3758	3639	1778
35°	624	637	597	593	501	423
45°	164	204	204	204	165	116
55°	26	28	50	29	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°	29815.0	29815.0	29815.0	29815.0	29815.0
2.5°	29617.4	29596.9	29608.6	29623.2	29629.1
5°	28848.9	28821.0	28815.2	28875.2	28850.3
7.5°	27298.7	27259.2	27199.1	27335.3	27462.6
10°	24701.9	24658.0	24527.7	24592.1	24696.0
12.5°	20868.1	20726.2	20723.2	20928.2	20900.3
15°	15807.7	15617.4	15722.8	15671.6	15643.8
17.5°	10630.2	10557.0	10697.6	10655.1	10472.1
20°	7647.0	7666.0	7933.9	7799.2	7636.7
22.5°	5580.1	5648.9	5966.5	5619.6	5492.2
25°	3715.2	3855.7	4189.4	3757.6	3639.0
27.5°	2285.0	2349.4	2687.6	2255.7	2191.3
30°	1421.4	1389.2	1548.7	1329.1	1238.4
32.5°	932.4	891.5	942.7	846.1	772.9
35°	623.6	636.8	597.2	592.8	500.6
37.5°	389.4	447.9	395.2	421.6	322.0
40°	251.8	325.0	279.6	308.9	237.1
42.5°	206.4	250.3	229.8	244.5	210.8
45°	163.9	203.5	203.5	203.5	165.4
47.5°	90.8	136.1	174.2	139.1	96.6
50°	51.2	68.8	134.7	71.7	54.2
52.5°	35.1	39.5	92.2	41.0	36.6
55°	26.3	27.8	49.8	29.3	27.8
57.5°	20.5	22.0	26.3	22.0	20.5
60°	16.1	16.1	19.0	17.6	16.1
62.5°	11.7	11.7	13.2	11.7	11.7
65°	8.8	8.8	8.8	8.8	8.8
67.5°	4.4	5.9	5.9	5.9	5.9
70°	4.4	2.9	2.9	2.9	4.4
72.5°	2.9	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

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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