

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: P772661

Luminaire Tested: LD6D85BD010-EU6DR3070959040-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772661
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-EU6DR3070959040-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9705.8 lumens
Efficiency: N/A
Efficacy: 110.7 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

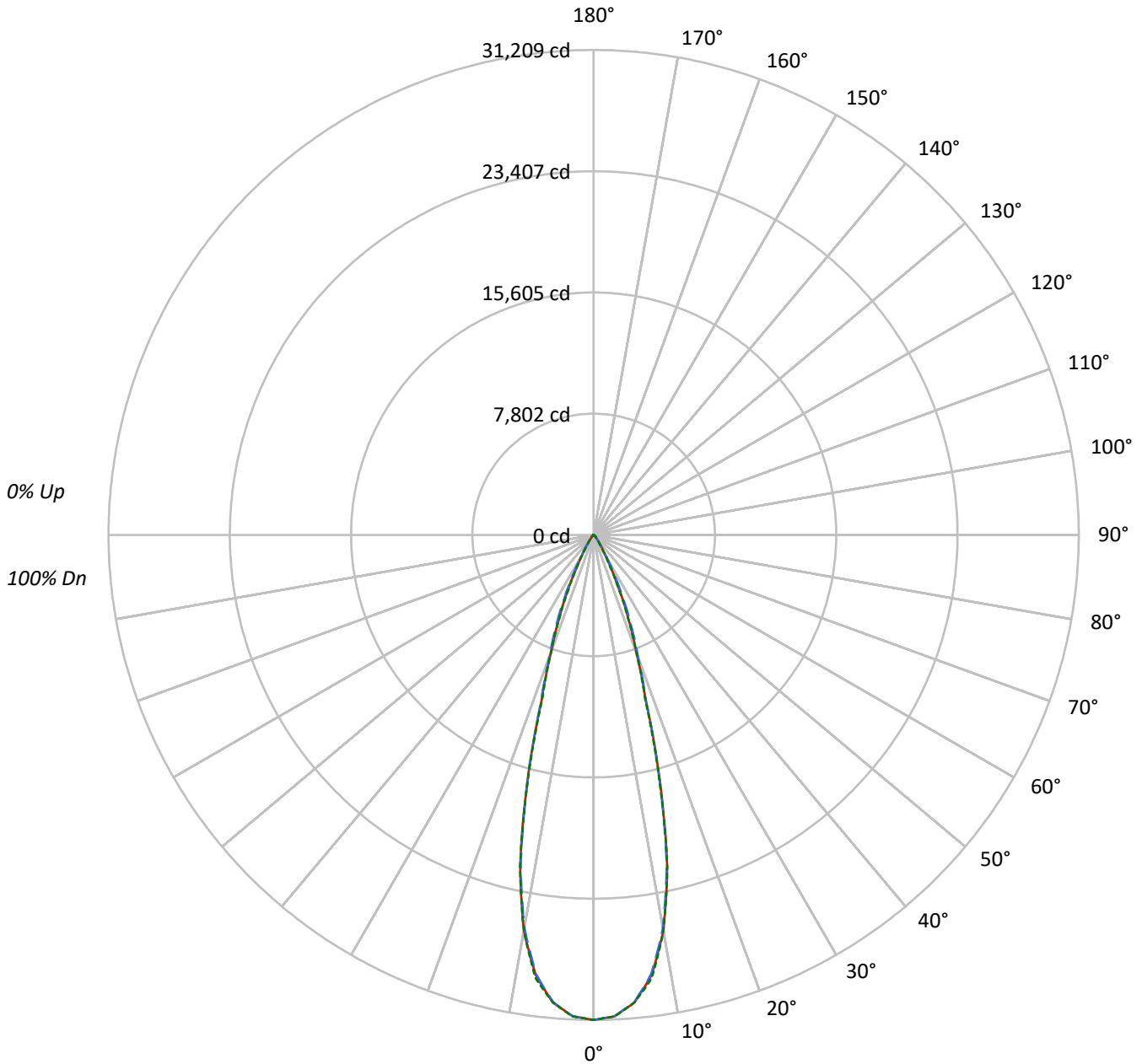
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	2388835	2388835	2388835
5°	2320256	2317552	2320371
10°	2009691	1995522	2009217
15°	1311227	1304182	1297629
20°	652013	676474	651141
25°	328442	370366	321711
30°	131499	143280	114573
35°	60990	58420	48964
40°	26329	29247	24800
45°	18575	23057	18738
50°	6383	16790	6752
55°	3683	6953	3883
60°	2587	3046	2587
65°	1666	1666	1666
70°	1029	694	1029
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 23057 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2744.3	28.3
10°-20°	4419.8	45.5
20°-30°	1909.9	19.7
30°-40°	435.3	4.5
40°-50°	149.5	1.5
50°-60°	36.5	0.4
60°-70°	9.5	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°	9074.1	93.5
0°-40°	9509.4	98.0
0°-60°	9695.4	99.9
0°-90°	9705.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9705.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31209	31209	31209	31209	31209	
5°	30198	30168	30162	30225	30199	2747
15°	16547	16348	16458	16404	16375	4431
25°	3889	4036	4385	3933	3809	1861
35°	653	666	625	621	524	443
45°	172	213	213	213	173	122
55°	28	29	52	31	29	27
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°	31208.9	31208.9	31208.9	31208.9	31208.9
2.5°	31002.0	30980.6	30992.8	31008.2	31014.3
5°	30197.6	30168.5	30162.4	30225.2	30199.1
7.5°	28574.9	28533.6	28470.8	28613.3	28746.6
10°	25856.7	25810.8	25674.4	25741.8	25850.6
12.5°	21843.8	21695.1	21692.1	21906.6	21877.5
15°	16546.8	16347.6	16457.9	16404.3	16375.2
17.5°	11127.2	11050.6	11197.7	11153.3	10961.7
20°	8004.5	8024.4	8304.8	8163.8	7993.8
22.5°	5840.9	5913.0	6245.5	5882.3	5749.0
25°	3888.9	4035.9	4385.3	3933.3	3809.2
27.5°	2391.8	2459.3	2813.2	2361.2	2293.8
30°	1487.8	1454.1	1621.1	1391.3	1296.3
32.5°	976.0	933.1	986.8	885.6	809.0
35°	652.7	666.5	625.2	620.6	524.0
37.5°	407.6	468.9	413.7	441.3	337.1
40°	263.5	340.2	292.7	323.3	248.2
42.5°	216.0	262.0	240.6	255.9	220.6
45°	171.6	213.0	213.0	213.0	173.1
47.5°	95.0	142.5	182.3	145.6	101.1
50°	53.6	72.0	141.0	75.1	56.7
52.5°	36.8	41.4	96.5	42.9	38.3
55°	27.6	29.1	52.1	30.6	29.1
57.5°	21.5	23.0	27.6	23.0	21.5
60°	16.9	16.9	19.9	18.4	16.9
62.5°	12.3	12.3	13.8	12.3	12.3
65°	9.2	9.2	9.2	9.2	9.2
67.5°	4.6	6.1	6.1	6.1	6.1
70°	4.6	3.1	3.1	3.1	4.6
72.5°	3.1	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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