

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: P771906

Luminaire Tested: LD6D80BD010-EU6DR3070959050-6LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771906  
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: LD6D80BD010-EU6DR3070959050-6LBSQW1MW  
Description: 6 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

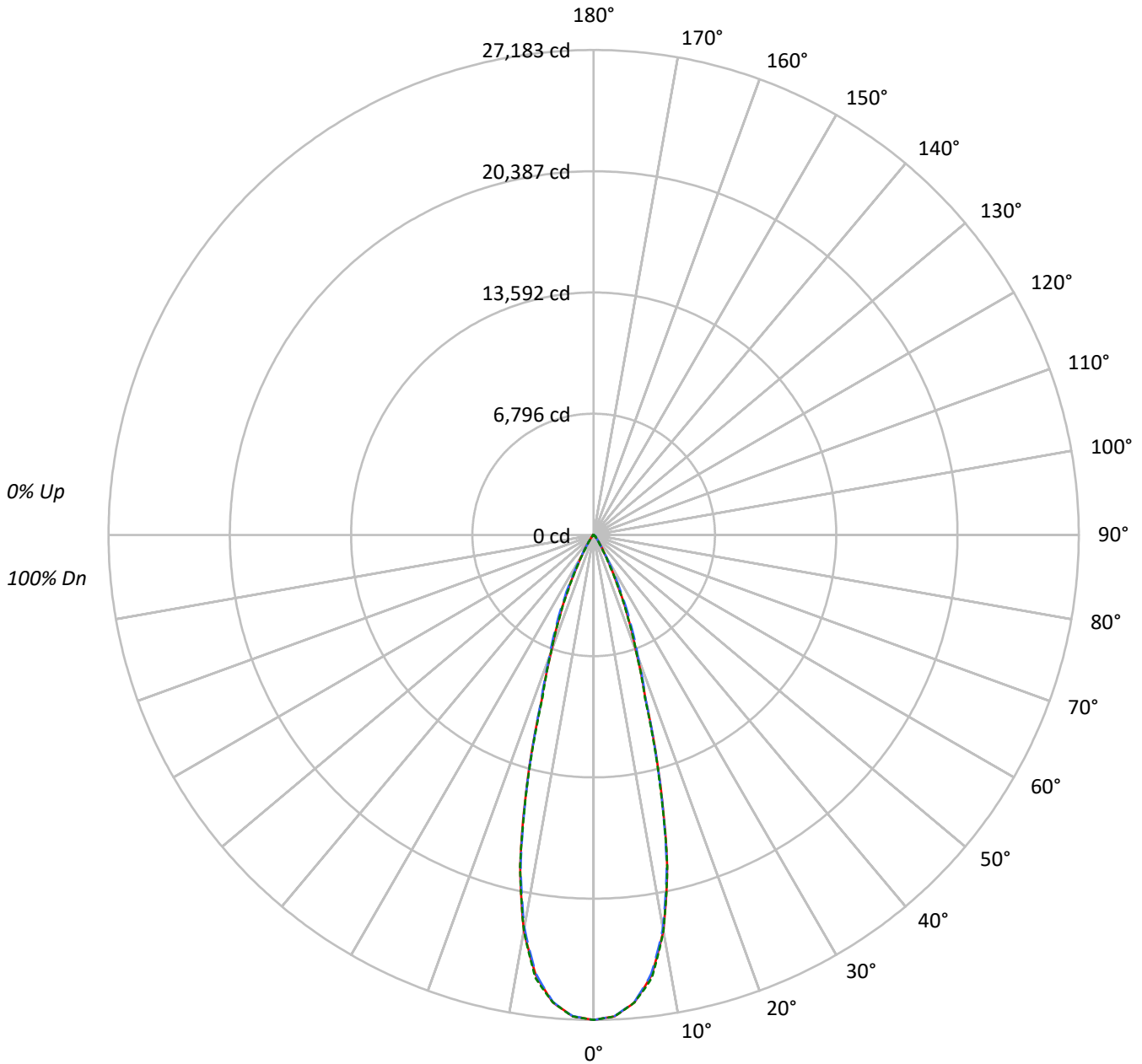
Lumens per Lamp: N/A  
Luminaire Lumens: 8453.8 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')

CIE Type: Direct  
Input Watts (W): 78.9  
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°	2080679	2080679	2080679
5°	2020942	2018583	2021050
10°	1750442	1738100	1750030
15°	1142082	1135948	1130235
20°	567902	589210	567144
25°	286070	322589	280209
30°	114538	124799	99795
35°	53122	50879	42647
40°	22932	25470	21603
45°	16183	20080	16324
50°	5561	14623	5883
55°	3203	6059	3390
60°	2250	2648	2250
65°	1449	1449	1449
70°	895	604	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 20080 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2390.3	28.3
10°-20°	3849.7	45.5
20°-30°	1663.5	19.7
30°-40°	379.2	4.5
40°-50°	130.2	1.5
50°-60°	31.8	0.4
60°-70°	8.2	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°	7903.5	93.5
0°-40°	8282.7	98.0
0°-60°	8444.7	99.9
0°-90°	8453.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8453.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27183	27183	27183	27183	27183	
5°	26302	26277	26271	26326	26304	2392
15°	14412	14239	14335	14288	14263	3859
25°	3387	3515	3820	3426	3318	1621
35°	568	580	544	540	456	386
45°	150	186	186	186	151	106
55°	24	25	45	27	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°	27183.0	27183.0	27183.0	27183.0	27183.0
2.5°	27002.8	26984.1	26994.8	27008.1	27013.5
5°	26302.1	26276.8	26271.4	26326.2	26303.5
7.5°	24888.8	24852.8	24798.1	24922.2	25038.3
10°	22521.2	22481.2	22362.4	22421.1	22515.9
12.5°	19025.9	18896.5	18893.8	19080.7	19055.3
15°	14412.3	14238.8	14334.9	14288.1	14262.8
17.5°	9691.8	9625.1	9753.2	9714.5	9547.7
20°	6971.9	6989.3	7233.5	7110.7	6962.6
22.5°	5087.5	5150.2	5439.8	5123.5	5007.4
25°	3387.2	3515.3	3819.6	3425.9	3317.8
27.5°	2083.3	2142.0	2450.3	2056.6	1997.9
30°	1295.9	1266.5	1412.0	1211.8	1129.1
32.5°	850.1	812.8	859.5	771.4	704.7
35°	568.5	580.5	544.5	540.5	456.4
37.5°	355.0	408.4	360.3	384.4	293.6
40°	229.5	296.3	254.9	281.6	216.2
42.5°	188.2	228.2	209.5	222.9	192.2
45°	149.5	185.5	185.5	185.5	150.8
47.5°	82.7	124.1	158.8	126.8	88.1
50°	46.7	62.7	122.8	65.4	49.4
52.5°	32.0	36.0	84.1	37.4	33.4
55°	24.0	25.4	45.4	26.7	25.4
57.5°	18.7	20.0	24.0	20.0	18.7
60°	14.7	14.7	17.3	16.0	14.7
62.5°	10.7	10.7	12.0	10.7	10.7
65°	8.0	8.0	8.0	8.0	8.0
67.5°	4.0	5.3	5.3	5.3	5.3
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	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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