

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: P771903

Luminaire Tested: LD6D80BD010-EU6DR3070959050-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771903
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-EU6DR3070959050-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11113.6 lumens
Efficiency: N/A
Efficacy: 140.9 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

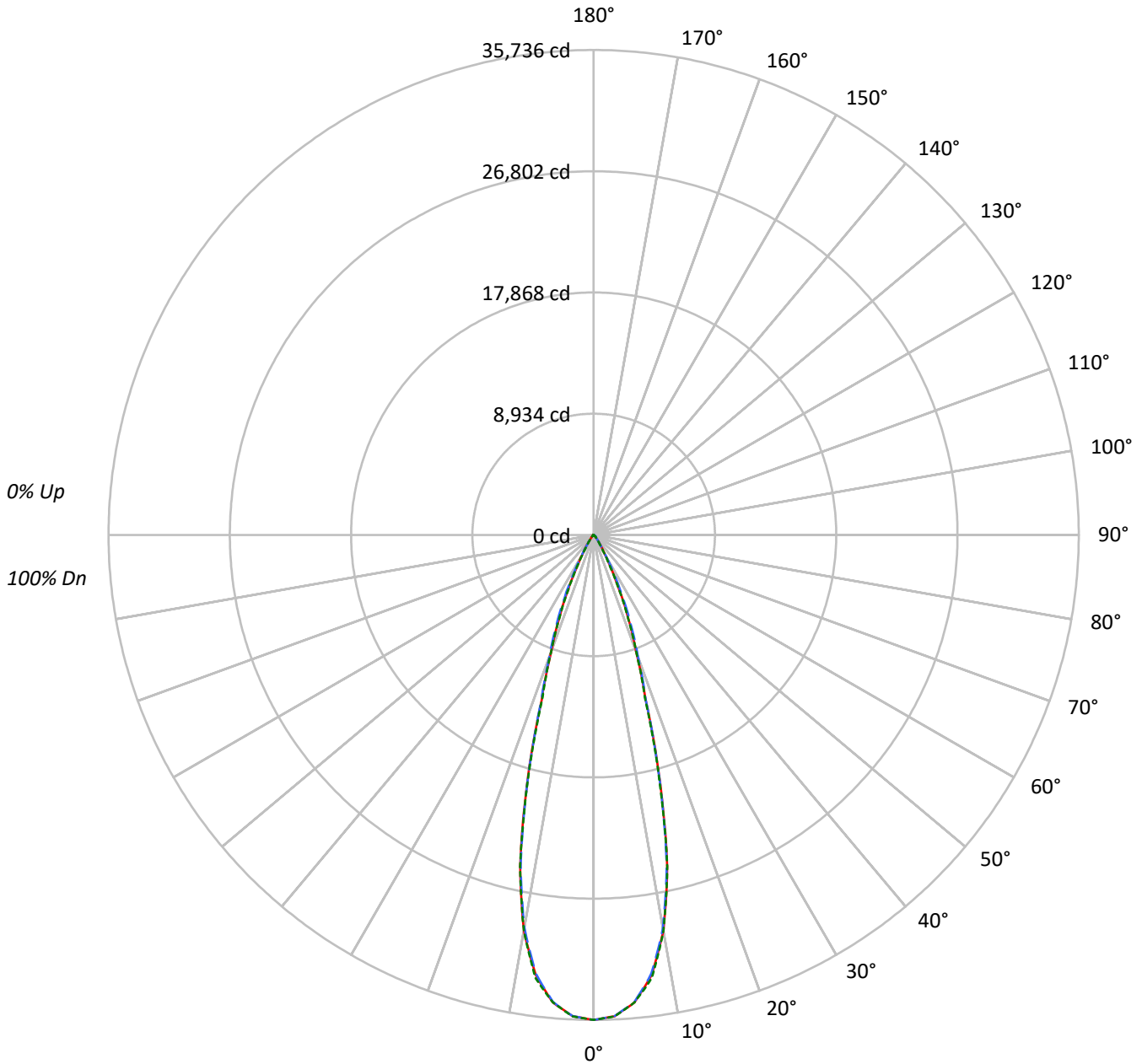
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2735324	2735324	2735324
5°	2656797	2653693	2656927
10°	2301188	2284959	2300644
15°	1501412	1493345	1485840
20°	746583	774596	745581
25°	376075	424089	368373
30°	150572	164069	131189
35°	69839	66886	56065
40°	30156	33483	28397
45°	21271	26402	21466
50°	7312	19220	7728
55°	4217	7967	4444
60°	2955	3490	2955
65°	1902	1902	1902
70°	1186	783	1186
75°	0	532	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 26402 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3142.4	28.3
10°-20°	5060.9	45.5
20°-30°	2186.9	19.7
30°-40°	498.4	4.5
40°-50°	171.2	1.5
50°-60°	41.8	0.4
60°-70°	10.8	0.1
70°-80°	1.2	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°	10390.2	93.5
0°-40°	10888.7	98.0
0°-60°	11101.6	99.9
0°-90°	11113.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11113.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	35736	35736	35736	35736	35736	
5°	34578	34544	34537	34609	34579	3145
15°	18947	18719	18845	18784	18750	5073
25°	4453	4621	5021	4504	4362	2131
35°	747	763	716	711	600	507
45°	196	244	244	244	198	139
55°	32	33	60	35	33	31
65°	10	10	10	10	10	10
75°	0	0	2	0	0	2
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°	35735.6	35735.6	35735.6	35735.6	35735.6
2.5°	35498.7	35474.1	35488.2	35505.7	35512.7
5°	34577.6	34544.3	34537.2	34609.2	34579.3
7.5°	32719.6	32672.2	32600.3	32763.4	32916.1
10°	29607.1	29554.5	29398.3	29475.5	29600.1
12.5°	25012.1	24841.9	24838.4	25084.0	25050.7
15°	18946.8	18718.7	18845.0	18783.6	18750.3
17.5°	12741.1	12653.4	12821.9	12771.0	12551.7
20°	9165.5	9188.3	9509.4	9348.0	9153.2
22.5°	6688.1	6770.6	7151.3	6735.5	6582.9
25°	4452.9	4621.3	5021.4	4503.8	4361.7
27.5°	2738.8	2816.0	3221.3	2703.7	2626.5
30°	1703.6	1665.0	1856.3	1593.1	1484.3
32.5°	1117.6	1068.5	1129.9	1014.1	926.4
35°	747.4	763.2	715.8	710.6	600.0
37.5°	466.7	536.9	473.7	505.3	386.0
40°	301.8	389.5	335.1	370.2	284.2
42.5°	247.4	300.0	275.5	293.0	252.6
45°	196.5	243.9	243.9	243.9	198.3
47.5°	108.8	163.2	208.8	166.7	115.8
50°	61.4	82.5	161.4	86.0	64.9
52.5°	42.1	47.4	110.5	49.1	43.9
55°	31.6	33.3	59.7	35.1	33.3
57.5°	24.6	26.3	31.6	26.3	24.6
60°	19.3	19.3	22.8	21.1	19.3
62.5°	14.0	14.0	15.8	14.0	14.0
65°	10.5	10.5	10.5	10.5	10.5
67.5°	5.3	7.0	7.0	7.0	7.0
70°	5.3	3.5	3.5	3.5	5.3
72.5°	3.5	1.8	1.8	1.8	1.8
75°	0.0	0.0	1.8	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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