

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: P771859

Luminaire Tested: LD6D80BD010-EU6DR3070959030-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771859
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-EU6DR3070959030-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9438.5 lumens
Efficiency: N/A
Efficacy: 119.6 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

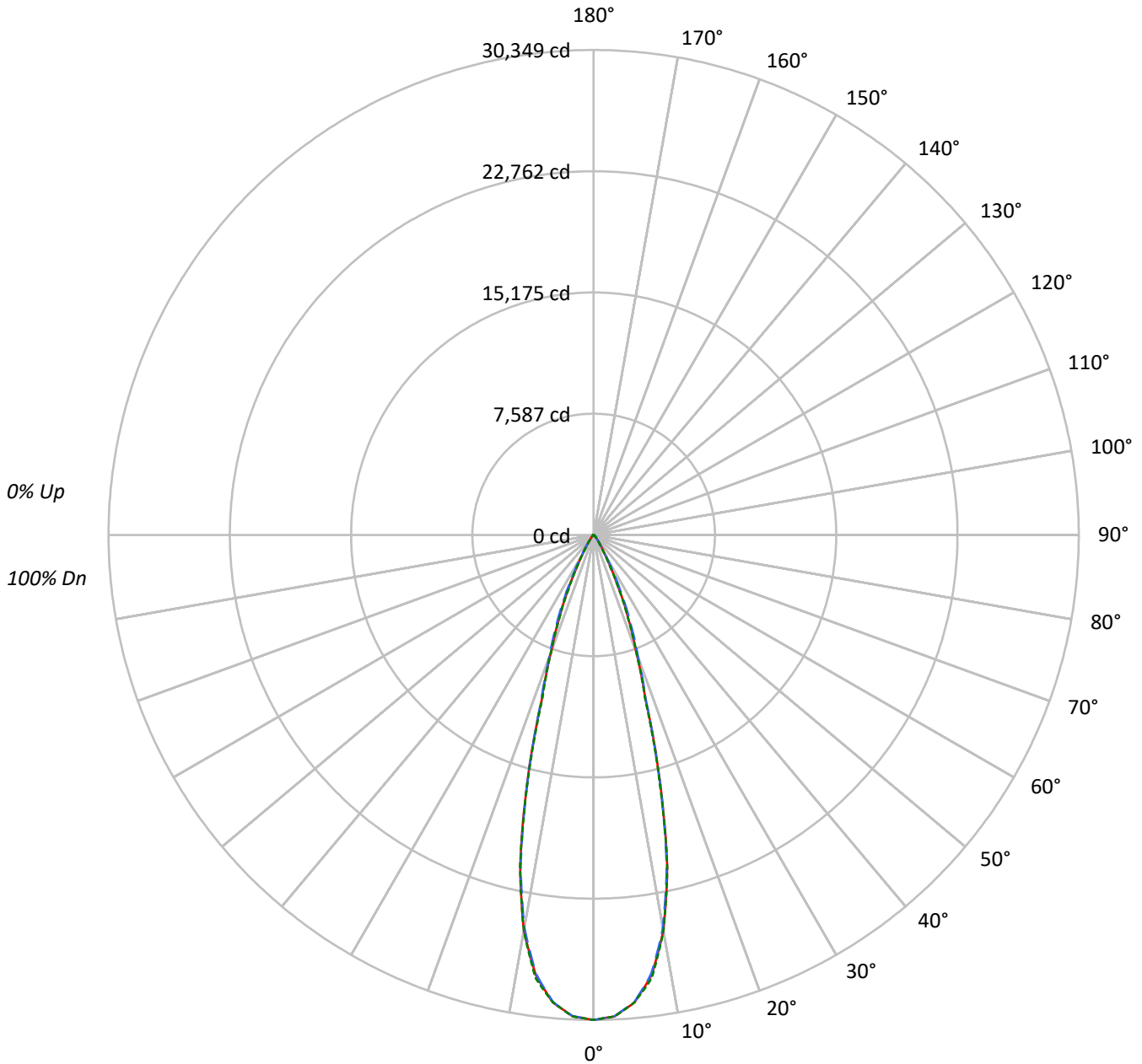
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	2323046	2323046	2323046
5°	2256352	2253716	2256467
10°	1954344	1940563	1953878
15°	1275116	1268261	1261890
20°	634052	657845	633205
25°	319388	360164	312851
30°	127875	139338	111418
35°	59317	56804	47618
40°	25610	28437	24121
45°	18067	22418	18229
50°	6216	16326	6561
55°	3576	6766	3777
60°	2511	2970	2511
65°	1612	1612	1612
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: 22418 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2668.8	28.3
10°-20°	4298.1	45.5
20°-30°	1857.3	19.7
30°-40°	423.3	4.5
40°-50°	145.3	1.5
50°-60°	35.5	0.4
60°-70°	9.2	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°	8824.1	93.5
0°-40°	9247.5	98.0
0°-60°	9428.3	99.9
0°-90°	9438.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9438.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30349	30349	30349	30349	30349	
5°	29366	29338	29332	29393	29367	2671
15°	16091	15897	16005	15952	15924	4309
25°	3782	3925	4264	3825	3704	1810
35°	635	648	608	604	510	431
45°	167	207	207	207	168	118
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°	30349.4	30349.4	30349.4	30349.4	30349.4
2.5°	30148.2	30127.3	30139.3	30154.2	30160.1
5°	29365.9	29337.6	29331.6	29392.7	29367.4
7.5°	27788.0	27747.7	27686.6	27825.2	27954.8
10°	25144.6	25099.9	24967.3	25032.8	25138.6
12.5°	21242.2	21097.6	21094.6	21303.3	21274.9
15°	16091.1	15897.3	16004.6	15952.5	15924.2
17.5°	10820.7	10746.2	10889.3	10846.1	10659.8
20°	7784.0	7803.4	8076.1	7939.0	7773.6
22.5°	5680.1	5750.1	6073.4	5720.3	5590.7
25°	3781.7	3924.8	4264.5	3825.0	3704.3
27.5°	2326.0	2391.5	2735.7	2296.2	2230.6
30°	1446.8	1414.1	1576.5	1353.0	1260.6
32.5°	949.2	907.4	959.6	861.2	786.7
35°	634.8	648.2	607.9	603.5	509.6
37.5°	396.4	456.0	402.3	429.1	327.8
40°	256.3	330.8	284.6	314.4	241.4
42.5°	210.1	254.8	233.9	248.8	214.6
45°	166.9	207.1	207.1	207.1	168.4
47.5°	92.4	138.6	177.3	141.6	98.3
50°	52.2	70.0	137.1	73.0	55.1
52.5°	35.8	40.2	93.9	41.7	37.3
55°	26.8	28.3	50.7	29.8	28.3
57.5°	20.9	22.4	26.8	22.4	20.9
60°	16.4	16.4	19.4	17.9	16.4
62.5°	11.9	11.9	13.4	11.9	11.9
65°	8.9	8.9	8.9	8.9	8.9
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

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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