

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: P771852

Luminaire Tested: LD6D80BD010-EU6DR3070959027-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771852
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-EU6DR3070959027-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9166.9 lumens
Efficiency: N/A
Efficacy: 116.2 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

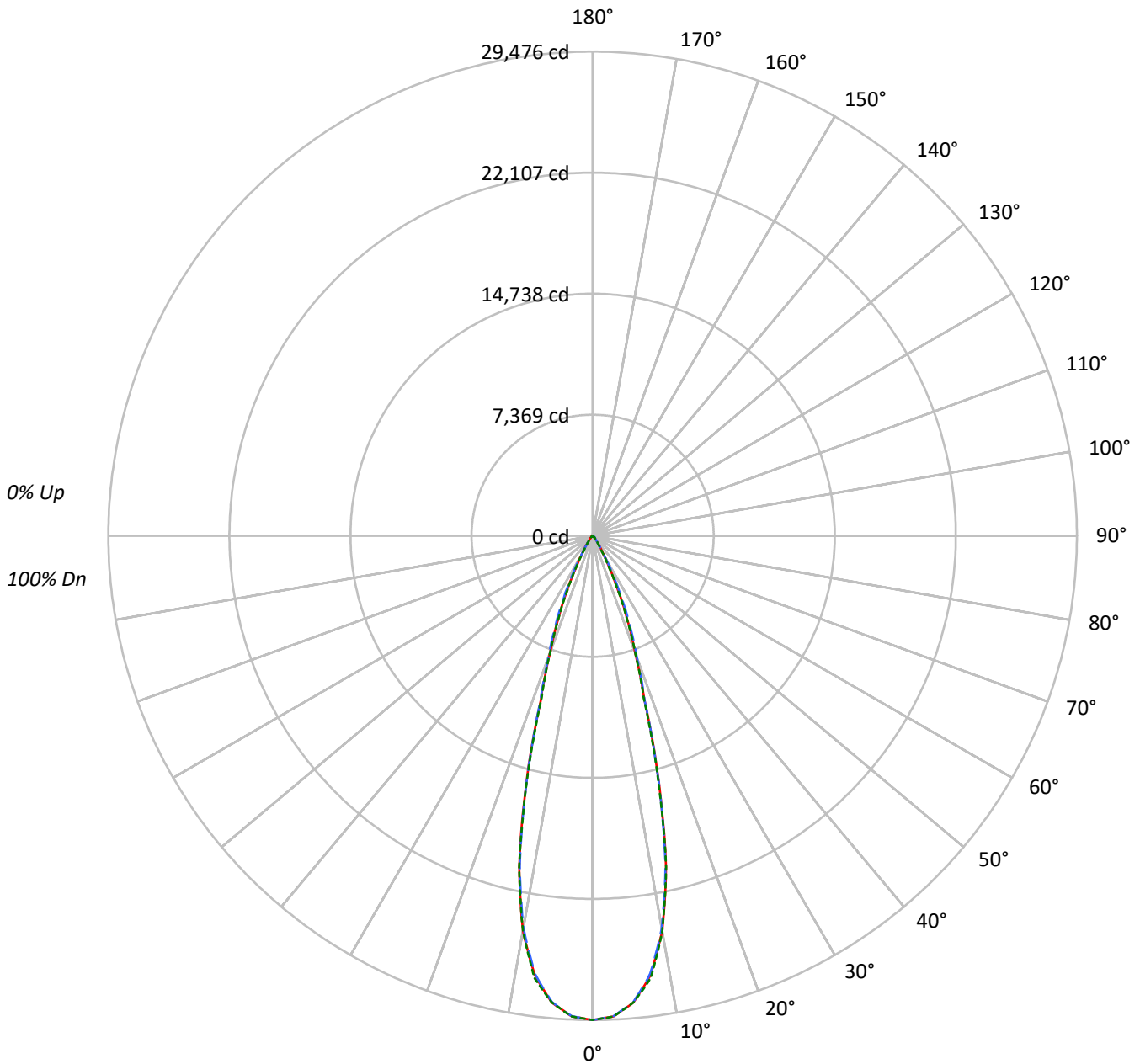


Downlight

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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°	2256208	2256208	2256208
5°	2191441	2188882	2191549
10°	1898118	1884734	1897667
15°	1238426	1231778	1225581
20°	615814	638915	614983
25°	310200	349801	303848
30°	124198	135326	108209
35°	57607	55178	46245
40°	24870	27618	23421
45°	17547	21780	17699
50°	6037	15850	6371
55°	3470	6566	3670
60°	2434	2878	2434
65°	1576	1576	1576
70°	962	649	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21780 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2592.0	28.3
10°-20°	4174.4	45.5
20°-30°	1803.9	19.7
30°-40°	411.1	4.5
40°-50°	141.2	1.5
50°-60°	34.5	0.4
60°-70°	8.9	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°	8570.3	93.5
0°-40°	8981.4	98.0
0°-60°	9157.1	99.9
0°-90°	9166.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9166.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29476	29476	29476	29476	29476	
5°	28521	28494	28488	28547	28522	2594
15°	15628	15440	15544	15494	15466	4185
25°	3673	3812	4142	3715	3598	1758
35°	616	630	590	586	495	418
45°	162	201	201	201	164	115
55°	26	28	49	29	28	25
65°	9	9	9	9	9	9
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°	29476.2	29476.2	29476.2	29476.2	29476.2
2.5°	29280.8	29260.6	29272.2	29286.6	29292.4
5°	28521.1	28493.6	28487.8	28547.1	28522.5
7.5°	26988.5	26949.4	26890.1	27024.7	27150.6
10°	24421.2	24377.8	24249.0	24312.7	24415.4
12.5°	20631.0	20490.7	20487.8	20690.4	20662.9
15°	15628.1	15440.0	15544.2	15493.5	15466.0
17.5°	10509.4	10437.1	10576.0	10534.0	10353.1
20°	7560.1	7578.9	7843.7	7710.6	7549.9
22.5°	5516.7	5584.7	5898.7	5555.7	5429.8
25°	3672.9	3811.9	4141.8	3714.9	3597.7
27.5°	2259.1	2322.7	2657.0	2230.1	2166.4
30°	1405.2	1373.4	1531.1	1314.0	1224.3
32.5°	921.9	881.3	932.0	836.5	764.1
35°	616.5	629.5	590.5	586.1	494.9
37.5°	385.0	442.8	390.7	416.8	318.4
40°	248.9	321.3	276.4	305.4	234.4
42.5°	204.1	247.5	227.2	241.7	208.4
45°	162.1	201.2	201.2	201.2	163.5
47.5°	89.7	134.6	172.2	137.5	95.5
50°	50.7	68.0	133.1	70.9	53.5
52.5°	34.7	39.1	91.2	40.5	36.2
55°	26.0	27.5	49.2	28.9	27.5
57.5°	20.3	21.7	26.0	21.7	20.3
60°	15.9	15.9	18.8	17.4	15.9
62.5°	11.6	11.6	13.0	11.6	11.6
65°	8.7	8.7	8.7	8.7	8.7
67.5°	4.3	5.8	5.8	5.8	5.8
70°	4.3	2.9	2.9	2.9	4.3
72.5°	2.9	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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