

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P753825

Luminaire Tested: LD4D80BD010-EU4DR3070959040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR3070959040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8275.0 lumens
Efficiency: N/A
Efficacy: 104.9 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

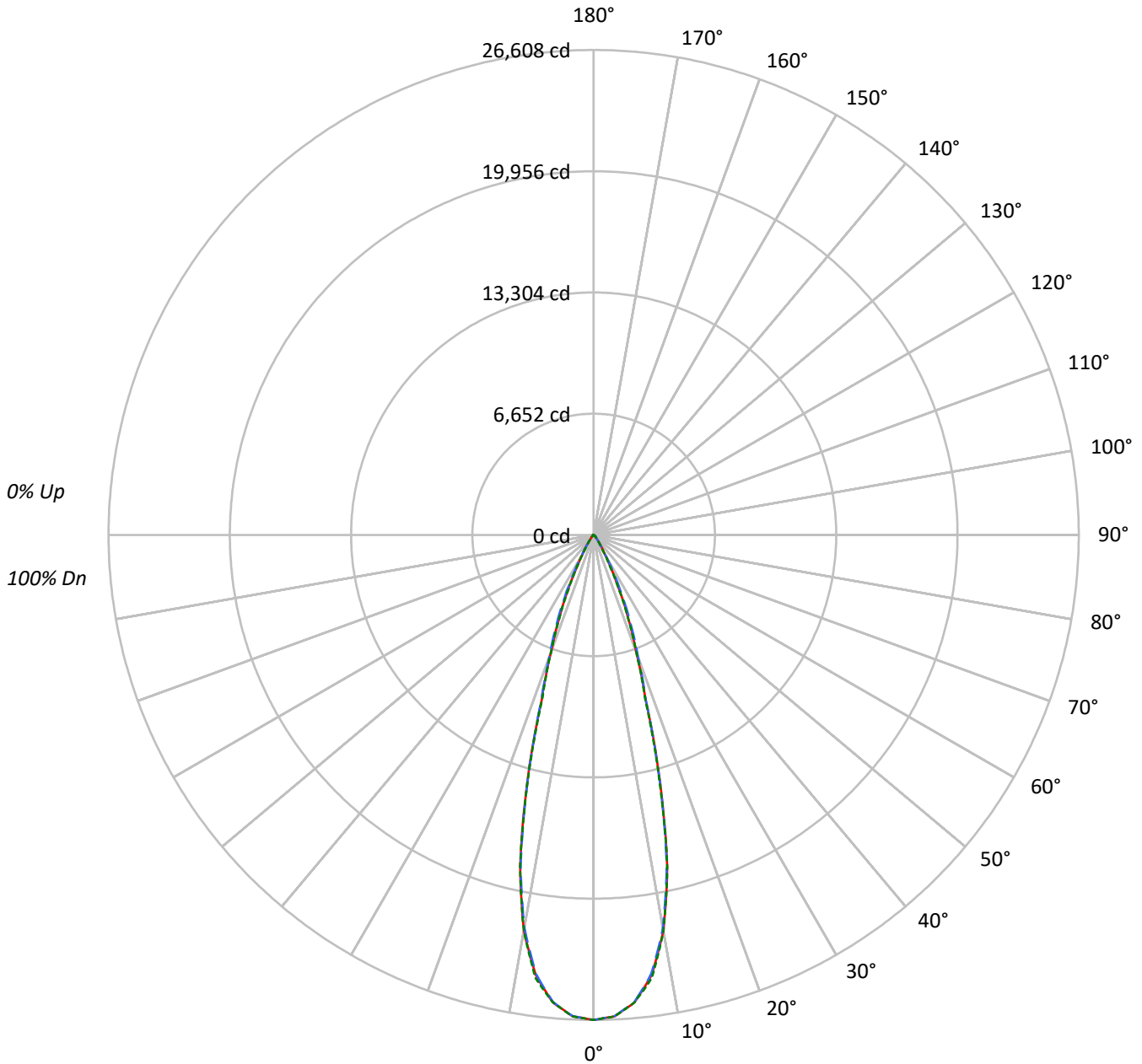
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	2036690	2036690	2036690
5°	1978222	1975909	1978322
10°	1713438	1701352	1713034
15°	1117936	1111930	1106335
20°	555895	576756	555154
25°	280023	315765	274289
30°	112116	122156	97683
35°	52001	49805	41750
40°	22452	24930	21143
45°	15837	19658	15978
50°	5442	14313	5752
55°	3136	5925	3310
60°	2204	2602	2204
65°	1413	1413	1413
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19658 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2339.8	28.3
10°-20°	3768.3	45.5
20°-30°	1628.4	19.7
30°-40°	371.1	4.5
40°-50°	127.4	1.5
50°-60°	31.1	0.4
60°-70°	8.1	0.1
70°-80°	0.8	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°	7736.4	93.5
0°-40°	8107.6	98.0
0°-60°	8266.1	99.9
0°-90°	8275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26608	26608	26608	26608	26608	
5°	25746	25721	25716	25770	25747	2342
15°	14108	13938	14032	13986	13961	3777
25°	3316	3441	3739	3354	3248	1587
35°	556	568	533	529	447	377
45°	146	182	182	182	148	104
55°	24	25	44	26	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°	26608.3	26608.3	26608.3	26608.3	26608.3
2.5°	26431.9	26413.6	26424.1	26437.1	26442.4
5°	25746.1	25721.2	25716.0	25769.6	25747.4
7.5°	24362.6	24327.3	24273.8	24395.3	24508.9
10°	22045.1	22005.9	21889.6	21947.1	22039.9
12.5°	18623.7	18497.0	18494.4	18677.3	18652.4
15°	14107.6	13937.7	14031.8	13986.1	13961.2
17.5°	9486.9	9421.6	9547.0	9509.1	9345.8
20°	6824.5	6841.5	7080.6	6960.4	6815.4
22.5°	4979.9	5041.3	5324.8	5015.2	4901.5
25°	3315.6	3441.0	3738.8	3353.5	3247.7
27.5°	2039.3	2096.7	2398.5	2013.1	1955.6
30°	1268.5	1239.8	1382.1	1186.2	1105.2
32.5°	832.2	795.6	841.3	755.1	689.8
35°	556.5	568.3	533.0	529.1	446.8
37.5°	347.5	399.8	352.7	376.2	287.4
40°	224.7	290.0	249.5	275.6	211.6
42.5°	184.2	223.4	205.1	218.2	188.1
45°	146.3	181.6	181.6	181.6	147.6
47.5°	81.0	121.5	155.5	124.1	86.2
50°	45.7	61.4	120.2	64.0	48.3
52.5°	31.4	35.3	82.3	36.6	32.7
55°	23.5	24.8	44.4	26.1	24.8
57.5°	18.3	19.6	23.5	19.6	18.3
60°	14.4	14.4	17.0	15.7	14.4
62.5°	10.5	10.5	11.8	10.5	10.5
65°	7.8	7.8	7.8	7.8	7.8
67.5°	3.9	5.2	5.2	5.2	5.2
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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