

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: P746008

Luminaire Tested: LD4D30D010-EU4DR3020359035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746008
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: LD4D30D010-EU4DR3020359035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2760.9 lumens
Efficiency: N/A
Efficacy: 95.2 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): 29
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

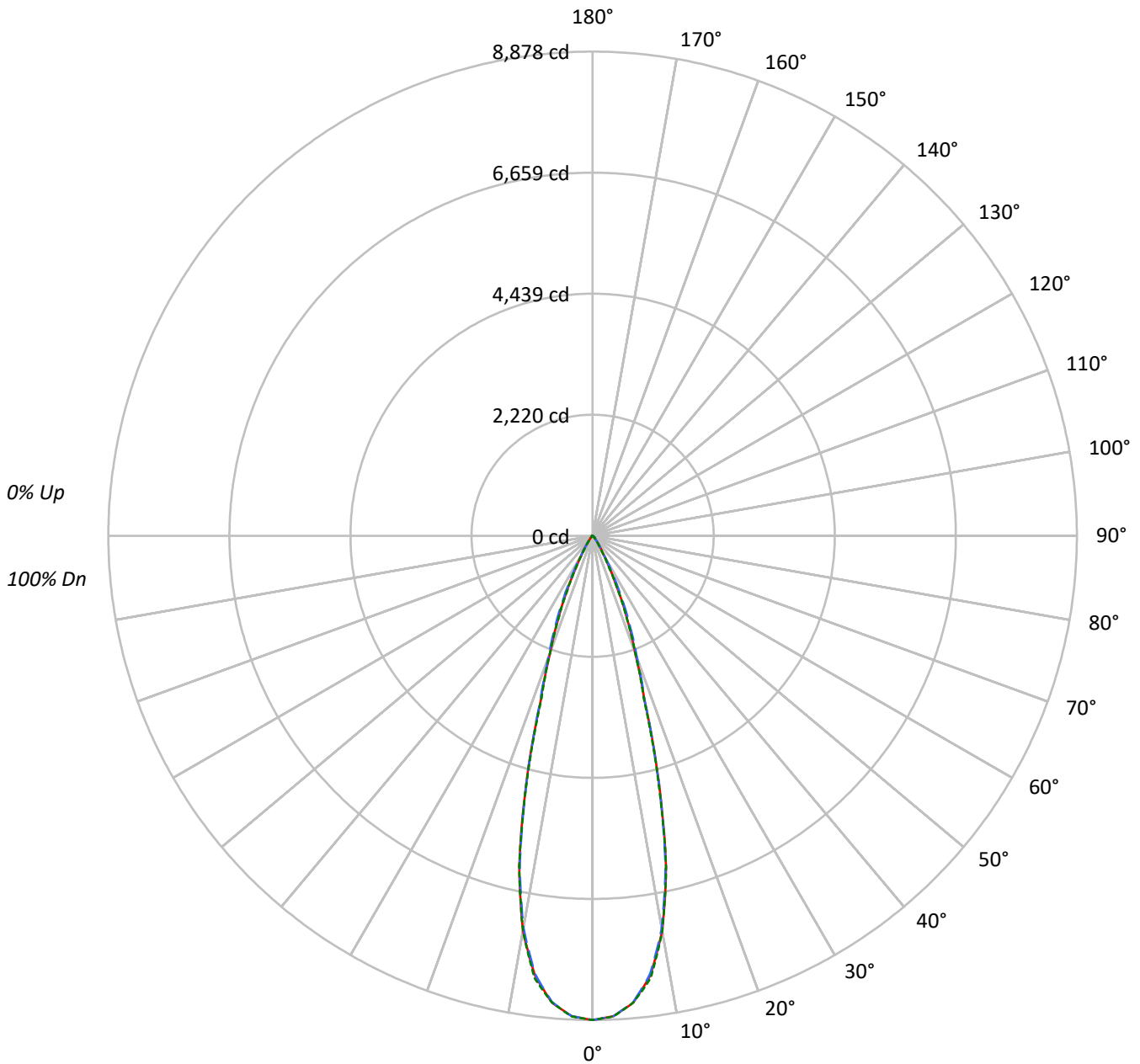


Downlight



TEST NUMBER: P746008
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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	679537	679537	679537
5°	660027	659259	660058
10°	571685	567651	571545
15°	372991	370987	369124
20°	185475	192431	185222
25°	93434	105351	91517
30°	37404	40763	32596
35°	17352	16614	13932
40°	7484	8313	7054
45°	5283	6560	5337
50°	1810	4775	1917
55°	1041	1975	1108
60°	735	873	735
65°	471	471	471
70°	291	201	291
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6560 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.7	28.3
10°-20°	1257.3	45.5
20°-30°	543.3	19.7
30°-40°	123.8	4.5
40°-50°	42.5	1.5
50°-60°	10.4	0.4
60°-70°	2.7	0.1
70°-80°	0.3	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°	2581.2	93.5
0°-40°	2705.1	98.0
0°-60°	2757.9	99.9
0°-90°	2760.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2760.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8878	8878	8878	8878	8878	
5°	8590	8582	8580	8598	8590	781
15°	4707	4650	4682	4666	4658	1260
25°	1106	1148	1247	1119	1084	530
35°	186	190	178	176	149	126
45°	49	61	61	61	49	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	8877.8	8877.8	8877.8	8877.8	8877.8
2.5°	8818.9	8812.8	8816.3	8820.6	8822.4
5°	8590.1	8581.8	8580.1	8597.9	8590.5
7.5°	8128.5	8116.7	8098.8	8139.4	8177.3
10°	7355.3	7342.2	7303.4	7322.5	7353.5
12.5°	6213.7	6171.4	6170.6	6231.6	6223.3
15°	4706.9	4650.2	4681.6	4666.4	4658.1
17.5°	3165.3	3143.5	3185.3	3172.7	3118.2
20°	2277.0	2282.6	2362.4	2322.3	2273.9
22.5°	1661.5	1682.0	1776.6	1673.3	1635.4
25°	1106.3	1148.1	1247.4	1118.9	1083.6
27.5°	680.4	699.6	800.2	671.7	652.5
30°	423.2	413.6	461.2	395.8	368.8
32.5°	277.7	265.4	280.7	251.9	230.2
35°	185.7	189.6	177.8	176.5	149.1
37.5°	116.0	133.4	117.7	125.5	95.9
40°	74.9	96.8	83.2	92.0	70.6
42.5°	61.5	74.5	68.4	72.8	62.7
45°	48.8	60.6	60.6	60.6	49.3
47.5°	27.0	40.5	51.9	41.4	28.8
50°	15.2	20.5	40.1	21.4	16.1
52.5°	10.5	11.7	27.4	12.2	10.9
55°	7.8	8.3	14.8	8.7	8.3
57.5°	6.1	6.5	7.8	6.5	6.1
60°	4.8	4.8	5.7	5.2	4.8
62.5°	3.5	3.5	3.9	3.5	3.5
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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