

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: P740099

Luminaire Tested: LD4D05D010-EU4DR300210IC9030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740099
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: LD4D05D010-EU4DR300210IC9030-4LBDP1H
Description: 4 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: 620.5 lumens
Efficiency: N/A
Efficacy: 82.7 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): 7.5
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



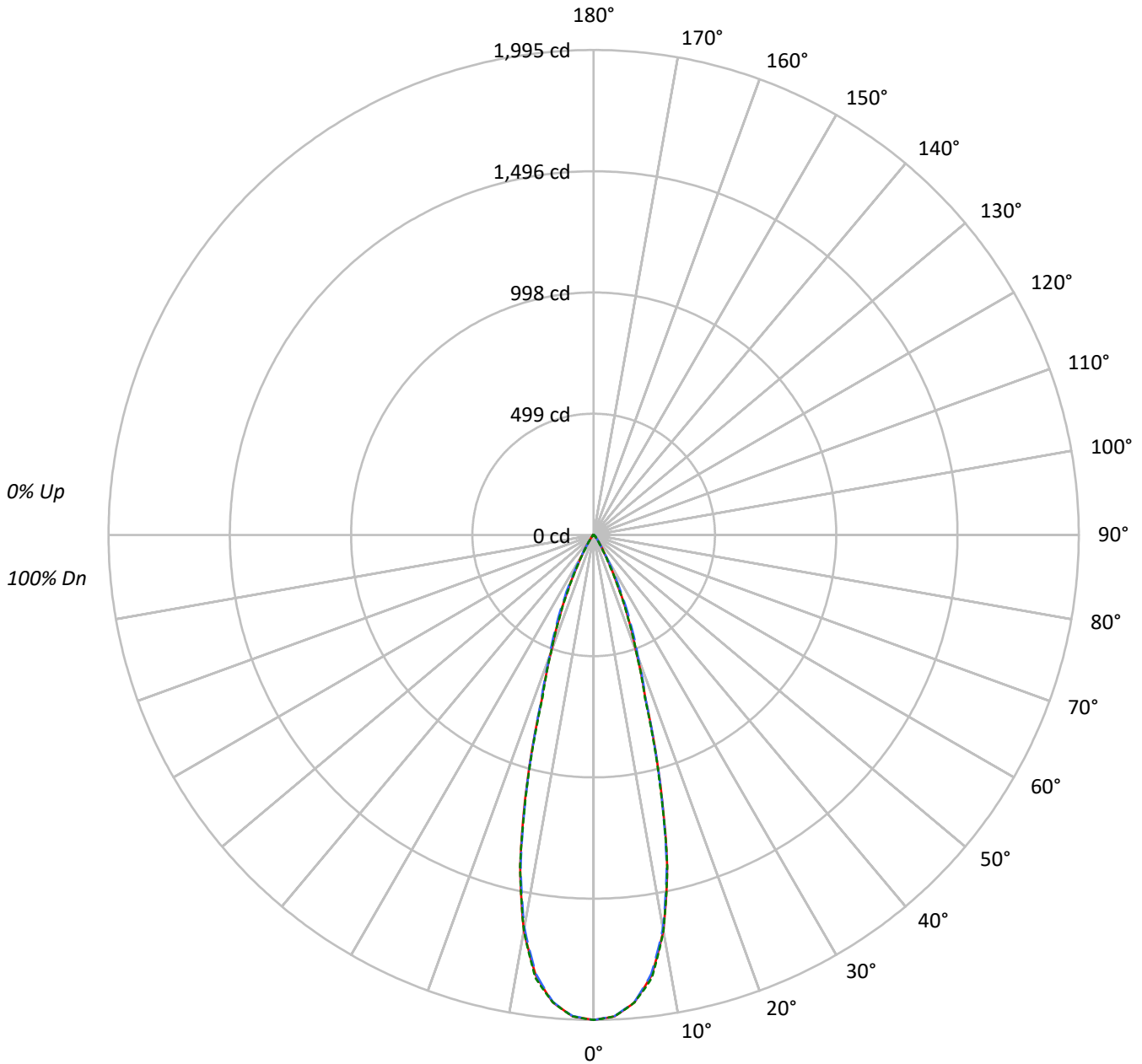
Downlight



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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°	152719	152719	152719
5°	148331	148162	148339
10°	128478	127569	128447
15°	83824	83380	82952
20°	41681	43245	41624
25°	20996	23673	20565
30°	8405	9157	7318
35°	3897	3738	3130
40°	1679	1869	1589
45°	1180	1472	1202
50°	405	1072	429
55°	240	440	240
60°	168	199	168
65°	109	109	109
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1472 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	28.3
10°-20°	282.6	45.5
20°-30°	122.1	19.7
30°-40°	27.8	4.5
40°-50°	9.6	1.5
50°-60°	2.3	0.4
60°-70°	0.6	0.1
70°-80°	0.1	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°	580.1	93.5
0°-40°	607.9	98.0
0°-60°	619.8	99.9
0°-90°	620.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	620.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1995	1995	1995	1995	1995	
5°	1930	1929	1928	1932	1931	176
15°	1058	1045	1052	1049	1047	283
25°	249	258	280	252	244	119
35°	42	43	40	40	34	28
45°	11	14	14	14	11	8
55°	2	2	3	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1995.2	1995.2	1995.2	1995.2	1995.2
2.5°	1982.0	1980.6	1981.4	1982.4	1982.8
5°	1930.5	1928.7	1928.3	1932.3	1930.6
7.5°	1826.8	1824.2	1820.2	1829.3	1837.7
10°	1653.0	1650.1	1641.3	1645.7	1652.6
12.5°	1396.5	1386.9	1386.8	1400.5	1398.6
15°	1057.8	1045.1	1052.2	1048.7	1046.8
17.5°	711.4	706.4	715.8	713.0	700.8
20°	511.7	513.0	530.9	521.9	511.0
22.5°	373.4	378.0	399.3	376.0	367.5
25°	248.6	258.0	280.3	251.5	243.5
27.5°	152.9	157.2	179.8	151.0	146.6
30°	95.1	92.9	103.6	88.9	82.8
32.5°	62.4	59.6	63.1	56.6	51.7
35°	41.7	42.6	40.0	39.6	33.5
37.5°	26.1	30.0	26.5	28.2	21.5
40°	16.8	21.8	18.7	20.7	15.9
42.5°	13.8	16.7	15.4	16.4	14.1
45°	10.9	13.6	13.6	13.6	11.1
47.5°	6.1	9.1	11.6	9.3	6.5
50°	3.4	4.6	9.0	4.8	3.6
52.5°	2.3	2.6	6.2	2.8	2.5
55°	1.8	1.8	3.3	1.9	1.8
57.5°	1.4	1.5	1.8	1.5	1.4
60°	1.1	1.1	1.3	1.2	1.1
62.5°	0.8	0.8	0.9	0.8	0.8
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.3	0.4	0.4	0.4	0.4
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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