

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: P751485

Luminaire Tested: LD4D65D010-EU4DR3055659040-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751485  
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: LD4D65D010-EU4DR3055659040-4LBS1H  
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: 7235.4 lumens  
Efficiency: N/A  
Efficacy: 99.4 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

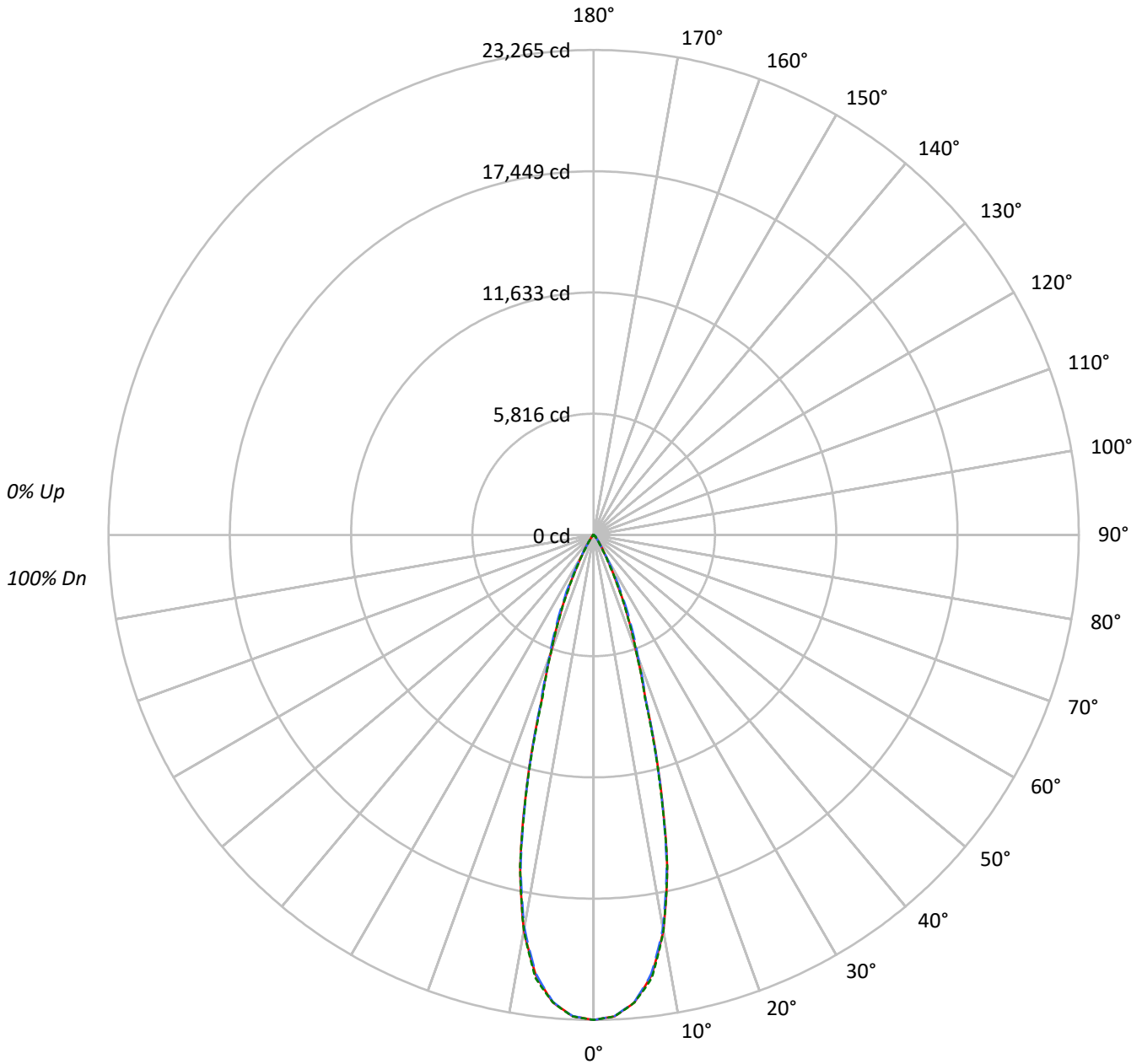
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1780813	1780813	1780813
5°	1729689	1727668	1729781
10°	1498173	1487610	1497815
15°	977485	972231	967350
20°	486055	504293	485403
25°	244839	276096	239822
30°	98027	106813	85406
35°	45469	43544	36508
40°	19634	21803	18485
45°	13845	17190	13975
50°	4763	12515	5037
55°	2749	5178	2896
60°	1929	2266	1929
65°	1250	1250	1250
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 17190 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2045.8	28.3
10°-20°	3294.8	45.5
20°-30°	1423.8	19.7
30°-40°	324.5	4.5
40°-50°	111.4	1.5
50°-60°	27.2	0.4
60°-70°	7.1	0.1
70°-80°	0.7	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°	6764.5	93.5
0°-40°	7089.0	98.0
0°-60°	7227.6	99.9
0°-90°	7235.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7235.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23265	23265	23265	23265	23265	
5°	22512	22490	22485	22532	22513	2048
15°	12335	12187	12269	12229	12207	3303
25°	2899	3009	3269	2932	2840	1388
35°	487	497	466	463	391	330
45°	128	159	159	159	129	91
55°	21	22	39	23	22	20
65°	7	7	7	7	7	7
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°	23265.4	23265.4	23265.4	23265.4	23265.4
2.5°	23111.2	23095.2	23104.3	23115.8	23120.3
5°	22511.5	22489.8	22485.2	22532.1	22512.7
7.5°	21301.9	21271.0	21224.2	21330.4	21429.8
10°	19275.5	19241.3	19139.6	19189.8	19270.9
12.5°	16284.0	16173.2	16170.9	16330.8	16309.1
15°	12335.2	12186.7	12268.9	12229.0	12207.3
17.5°	8295.0	8237.9	8347.6	8314.5	8171.7
20°	5967.1	5982.0	6191.0	6085.9	5959.1
22.5°	4354.3	4408.0	4655.8	4385.1	4285.7
25°	2899.0	3008.7	3269.1	2932.2	2839.6
27.5°	1783.1	1833.3	2097.2	1760.2	1710.0
30°	1109.1	1084.0	1208.5	1037.2	966.3
32.5°	727.6	695.6	735.6	660.2	603.1
35°	486.6	496.9	466.0	462.6	390.7
37.5°	303.8	349.5	308.4	329.0	251.3
40°	196.5	253.6	218.2	241.0	185.0
42.5°	161.1	195.3	179.3	190.8	164.5
45°	127.9	158.8	158.8	158.8	129.1
47.5°	70.8	106.2	135.9	108.5	75.4
50°	40.0	53.7	105.1	56.0	42.3
52.5°	27.4	30.8	72.0	32.0	28.6
55°	20.6	21.7	38.8	22.8	21.7
57.5°	16.0	17.1	20.6	17.1	16.0
60°	12.6	12.6	14.8	13.7	12.6
62.5°	9.1	9.1	10.3	9.1	9.1
65°	6.9	6.9	6.9	6.9	6.9
67.5°	3.4	4.6	4.6	4.6	4.6
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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(END OF REPORT)