

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: P751475

Luminaire Tested: LD4D65D010-EU4DR3055659035-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751475  
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-EU4DR3055659035-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4986.6 lumens  
Efficiency: N/A  
Efficacy: 68.5 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

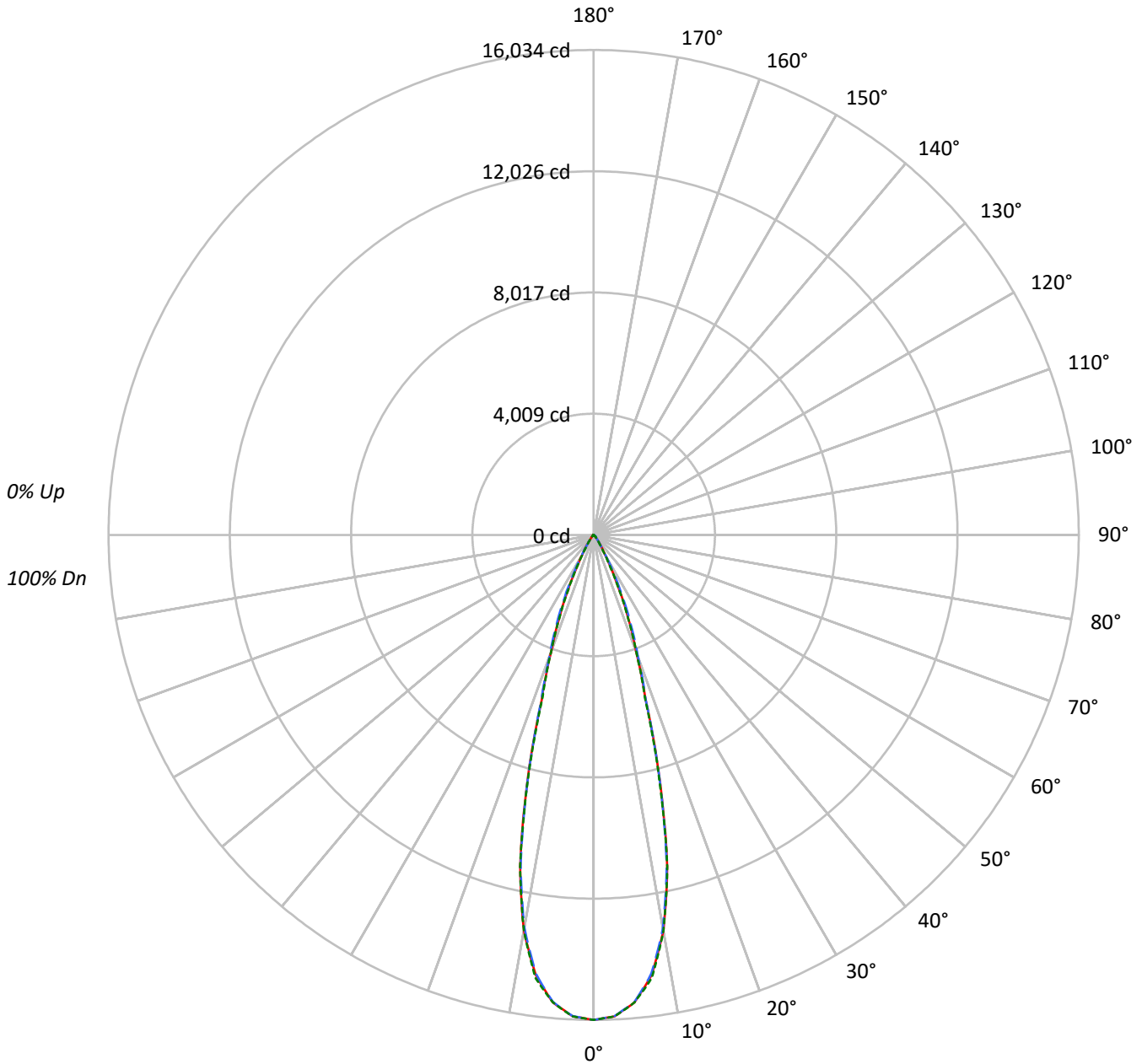
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1227327	1227327	1227327
5°	1192092	1190701	1192153
10°	1032535	1025252	1032286
15°	673673	670060	666692
20°	334987	347556	334539
25°	168744	190288	165289
30°	67561	73616	58864
35°	31341	30014	25155
40°	13529	15028	12740
45°	9548	11842	9634
50°	3287	8621	3465
55°	1895	3576	2002
60°	1332	1561	1332
65°	851	851	851
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11842 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1410.0	28.3
10°-20°	2270.8	45.5
20°-30°	981.3	19.7
30°-40°	223.7	4.5
40°-50°	76.8	1.5
50°-60°	18.8	0.4
60°-70°	4.9	0.1
70°-80°	0.5	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°	4662.0	93.5
0°-40°	4885.7	98.0
0°-60°	4981.2	99.9
0°-90°	4986.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4986.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16034	16034	16034	16034	16034	
5°	15515	15500	15497	15529	15516	1411
15°	8501	8399	8456	8428	8413	2276
25°	1998	2074	2253	2021	1957	956
35°	335	342	321	319	269	227
45°	88	109	109	109	89	63
55°	14	15	27	16	15	14
65°	5	5	5	5	5	5
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°	16034.4	16034.4	16034.4	16034.4	16034.4
2.5°	15928.1	15917.1	15923.4	15931.2	15934.4
5°	15514.8	15499.8	15496.7	15529.0	15515.6
7.5°	14681.1	14659.8	14627.6	14700.8	14769.3
10°	13284.6	13260.9	13190.9	13225.5	13281.4
12.5°	11222.8	11146.4	11144.9	11255.1	11240.1
15°	8501.3	8399.0	8455.7	8428.1	8413.2
17.5°	5716.9	5677.5	5753.1	5730.3	5631.9
20°	4112.5	4122.7	4266.8	4194.4	4107.0
22.5°	3000.9	3037.9	3208.8	3022.2	2953.7
25°	1998.0	2073.6	2253.1	2020.8	1957.1
27.5°	1228.9	1263.5	1445.4	1213.1	1178.5
30°	764.4	747.1	832.9	714.8	666.0
32.5°	501.5	479.4	507.0	455.0	415.7
35°	335.4	342.4	321.2	318.8	269.2
37.5°	209.4	240.9	212.6	226.7	173.2
40°	135.4	174.8	150.4	166.1	127.5
42.5°	111.0	134.6	123.6	131.5	113.4
45°	88.2	109.4	109.4	109.4	89.0
47.5°	48.8	73.2	93.7	74.8	52.0
50°	27.6	37.0	72.4	38.6	29.1
52.5°	18.9	21.3	49.6	22.0	19.7
55°	14.2	15.0	26.8	15.7	15.0
57.5°	11.0	11.8	14.2	11.8	11.0
60°	8.7	8.7	10.2	9.4	8.7
62.5°	6.3	6.3	7.1	6.3	6.3
65°	4.7	4.7	4.7	4.7	4.7
67.5°	2.4	3.1	3.1	3.1	3.1
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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