

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P858139

Luminaire Tested: **LD4C45D010 EU4459035 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P858139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C45D010 EU4459035 4LBMDSWGPH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

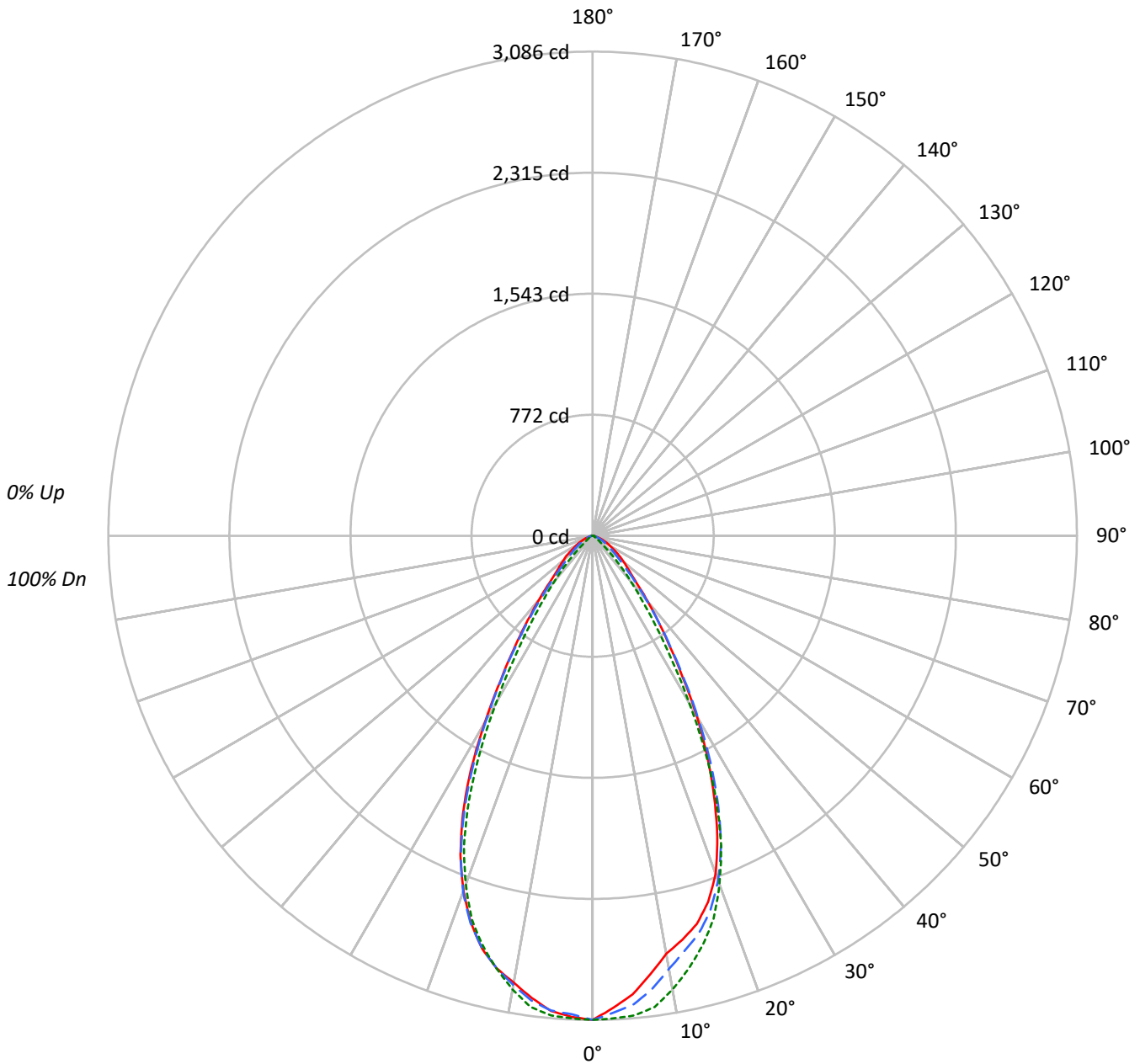
Lumens per Lamp: N/A
Luminaire Lumens: 2809.0 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					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			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72					72			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62					62			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58					58			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55					55			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51					51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48					48			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	379077	379077	379077
5°	361730	378478	374951
10°	337370	366200	360848
15°	325777	343965	346395
20°	299678	309025	314634
25°	248375	252903	265170
30°	188956	174756	194361
35°	127930	104699	129370
40°	87131	59996	84453
45°	60445	30214	57126
50°	49177	12289	46004
55°	39818	7647	36241
60°	31622	5848	28699
65°	24942	4855	22151
70°	18822	4274	17134
75°	13576	3370	12436
80°	10117	3396	8419
85°	6766	3383	6766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	10.1
10°-20°	745.4	26.5
20°-30°	855.2	30.4
30°-40°	519.5	18.5
40°-50°	222.7	7.9
50°-60°	106.8	3.8
60°-70°	51.9	1.8
70°-80°	19.3	0.7
80°-90°	4.4	0.2
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°	1884.3	67.1
0°-40°	2403.9	85.6
0°-60°	2733.3	97.3
0°-90°	2809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2809.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3086	3086	3086	3086	3086	
5°	2933	2998	3069	3038	3040	273
15°	2561	2621	2704	2721	2724	713
25°	1832	1892	1866	1937	1956	831
35°	853	865	698	844	863	547
45°	348	310	174	279	329	283
55°	186	138	36	124	169	168
65°	86	57	17	52	76	87
75°	29	19	7	17	26	31
85°	5	5	2	2	5	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3085.6	3085.6	3085.6	3085.6	3085.6	3085.6	3085.6	3085.6	3085.6
2.5°	3011.8	3045.1	3042.8	3071.3	3078.5	3071.3	3052.3	3071.3	3069.0
5°	2933.2	2971.3	2997.5	3045.1	3069.0	3064.2	3038.0	3042.8	3040.4
7.5°	2818.8	2866.4	2911.7	2983.2	3028.5	3026.1	2988.0	2980.8	2971.3
10°	2704.4	2749.7	2802.1	2876.0	2935.5	2945.1	2906.9	2897.4	2892.6
12.5°	2637.7	2673.4	2709.2	2773.5	2825.9	2845.0	2823.5	2825.9	2823.5
15°	2561.4	2597.2	2621.0	2668.7	2704.4	2730.6	2721.1	2735.4	2723.5
17.5°	2447.1	2490.0	2499.5	2535.2	2561.4	2578.1	2587.7	2601.9	2582.9
20°	2292.2	2325.6	2337.5	2351.8	2363.7	2385.1	2413.7	2428.0	2406.6
22.5°	2075.4	2139.7	2137.3	2130.2	2142.1	2149.2	2194.5	2218.3	2201.6
25°	1832.3	1899.0	1891.9	1863.3	1865.7	1880.0	1937.2	1968.1	1956.2
27.5°	1577.4	1639.3	1622.6	1567.8	1553.5	1575.0	1648.9	1684.6	1677.4
30°	1332.0	1372.5	1346.2	1248.6	1231.9	1258.1	1353.4	1389.1	1370.1
32.5°	1067.5	1098.4	1086.5	967.4	938.8	965.0	1077.0	1110.4	1088.9
35°	853.0	881.6	864.9	724.4	698.1	726.7	843.5	881.6	862.6
37.5°	683.8	705.3	683.8	533.7	509.9	538.5	650.5	700.5	676.7
40°	543.3	559.9	531.4	393.2	374.1	388.4	493.2	543.3	526.6
42.5°	428.9	440.8	409.8	288.3	266.9	285.9	371.7	417.0	407.4
45°	347.9	347.9	309.8	200.1	173.9	193.0	278.8	326.4	328.8
47.5°	297.8	290.7	243.0	133.4	100.1	126.3	221.6	271.6	278.8
50°	257.3	247.8	200.1	97.7	64.3	90.5	183.5	233.5	240.7
52.5°	221.6	214.4	166.8	76.2	45.3	69.1	154.9	202.5	209.7
55°	185.9	181.1	138.2	59.6	35.7	52.4	123.9	164.4	169.2
57.5°	152.5	145.3	112.0	50.0	28.6	42.9	102.5	135.8	140.6
60°	128.7	121.5	90.5	40.5	23.8	33.4	83.4	112.0	116.8
62.5°	107.2	100.1	73.9	33.4	19.1	28.6	66.7	90.5	95.3
65°	85.8	81.0	57.2	26.2	16.7	21.4	52.4	71.5	76.2
67.5°	69.1	64.3	45.3	21.4	14.3	16.7	40.5	57.2	62.0
70°	52.4	47.7	33.4	16.7	11.9	14.3	31.0	42.9	47.7
72.5°	38.1	35.7	26.2	14.3	9.5	11.9	21.4	31.0	35.7
75°	28.6	26.2	19.1	9.5	7.1	9.5	16.7	23.8	26.2
77.5°	19.1	19.1	14.3	7.1	7.1	7.1	11.9	16.7	16.7
80°	14.3	11.9	9.5	4.8	4.8	4.8	7.1	11.9	11.9
82.5°	9.5	7.1	7.1	4.8	4.8	4.8	4.8	7.1	7.1
85°	4.8	4.8	4.8	2.4	2.4	2.4	2.4	4.8	4.8
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)