

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: P857728

Luminaire Tested: **LD4C35D010 EU4359030 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857728
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: LD4C35D010 EU4359030 4LBMDSWH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

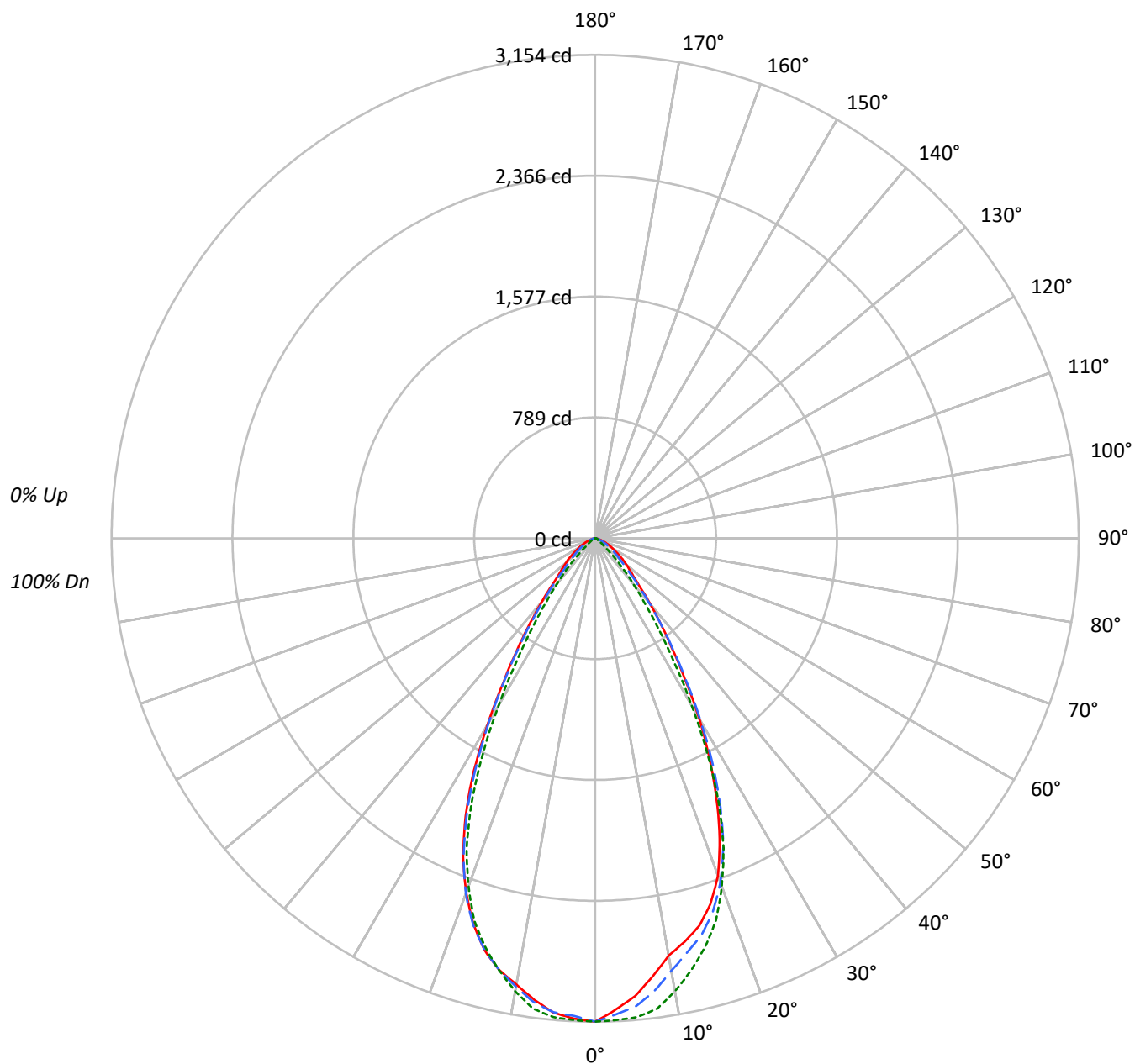
Lumens per Lamp: N/A
Luminaire Lumens: 2871.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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: 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	387455	387455	387455
5°	369709	386826	383225
10°	344818	374283	368819
15°	332976	351558	354039
20°	306293	315837	321576
25°	253865	258488	271026
30°	193113	178615	198645
35°	130749	107023	132219
40°	89056	61311	86313
45°	61782	30891	58394
50°	50266	12576	47017
55°	40696	7818	37033
60°	32310	5995	29313
65°	25494	4942	22645
70°	19253	4382	17493
75°	13860	3465	12721
80°	10329	3467	8631
85°	6907	3383	6907



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.0	10.1
10°-20°	761.9	26.5
20°-30°	874.1	30.4
30°-40°	531.0	18.5
40°-50°	227.6	7.9
50°-60°	109.2	3.8
60°-70°	53.1	1.8
70°-80°	19.7	0.7
80°-90°	4.5	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°	1925.9	67.1
0°-40°	2456.9	85.6
0°-60°	2793.7	97.3
0°-90°	2871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3154	3154	3154	3154	3154	
5°	2998	3064	3137	3105	3108	279
15°	2618	2679	2764	2781	2784	729
25°	1873	1934	1907	1980	1999	850
35°	872	884	714	862	882	559
45°	356	317	178	285	336	289
55°	190	141	36	127	173	171
65°	88	58	17	54	78	89
75°	29	20	7	17	27	32
85°	5	5	2	2	5	7
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°	3153.8	3153.8	3153.8	3153.8	3153.8	3153.8	3153.8	3153.8	3153.8
2.5°	3078.3	3112.4	3109.9	3139.1	3146.4	3139.1	3119.7	3139.1	3136.7
5°	2997.9	3036.9	3063.6	3112.4	3136.7	3131.8	3105.0	3109.9	3107.5
7.5°	2881.0	2929.7	2976.0	3049.0	3095.3	3092.9	3053.9	3046.6	3036.9
10°	2764.1	2810.4	2863.9	2939.4	3000.3	3010.1	2971.1	2961.4	2956.5
12.5°	2695.9	2732.4	2769.0	2834.7	2888.3	2907.8	2885.9	2888.3	2885.9
15°	2618.0	2654.5	2678.9	2727.6	2764.1	2790.9	2781.1	2795.8	2783.6
17.5°	2501.1	2544.9	2554.7	2591.2	2618.0	2635.0	2644.8	2659.4	2639.9
20°	2342.8	2376.9	2389.1	2403.7	2415.8	2437.8	2467.0	2481.6	2459.7
22.5°	2121.2	2186.9	2184.5	2177.2	2189.4	2196.7	2242.9	2267.3	2250.2
25°	1872.8	1941.0	1933.7	1904.4	1906.9	1921.5	1979.9	2011.6	1999.4
27.5°	1612.2	1675.5	1658.5	1602.4	1587.8	1609.8	1685.2	1721.8	1714.5
30°	1361.3	1402.7	1376.0	1276.1	1259.1	1285.9	1383.3	1419.8	1400.3
32.5°	1091.0	1122.7	1110.5	988.7	959.5	986.3	1100.8	1134.9	1112.9
35°	871.8	901.1	884.0	740.3	713.6	742.8	862.1	901.1	881.6
37.5°	698.9	720.9	698.9	545.5	521.2	550.4	664.8	716.0	691.6
40°	555.3	572.3	543.1	401.8	382.3	397.0	504.1	555.3	538.2
42.5°	438.4	450.5	418.9	294.7	272.8	292.2	379.9	426.2	416.4
45°	355.6	355.6	316.6	204.6	177.8	197.3	284.9	333.6	336.1
47.5°	304.4	297.1	248.4	136.4	102.3	129.1	226.5	277.6	284.9
50°	263.0	253.3	204.6	99.8	65.8	92.5	187.5	238.7	246.0
52.5°	226.5	219.2	170.5	77.9	46.3	70.6	158.3	207.0	214.3
55°	190.0	185.1	141.2	60.9	36.5	53.6	126.6	168.0	172.9
57.5°	155.9	148.6	114.5	51.1	29.2	43.8	104.7	138.8	143.7
60°	131.5	124.2	92.5	41.4	24.4	34.1	85.2	114.5	119.3
62.5°	109.6	102.3	75.5	34.1	19.5	29.2	68.2	92.5	97.4
65°	87.7	82.8	58.4	26.8	17.0	21.9	53.6	73.1	77.9
67.5°	70.6	65.8	46.3	21.9	14.6	17.0	41.4	58.4	63.3
70°	53.6	48.7	34.1	17.0	12.2	14.6	31.7	43.8	48.7
72.5°	39.0	36.5	26.8	14.6	9.7	12.2	21.9	31.7	36.5
75°	29.2	26.8	19.5	9.7	7.3	9.7	17.0	24.4	26.8
77.5°	19.5	19.5	14.6	7.3	7.3	7.3	12.2	17.0	17.0
80°	14.6	12.2	9.7	4.9	4.9	4.9	7.3	12.2	12.2
82.5°	9.7	7.3	7.3	4.9	4.9	4.9	4.9	7.3	7.3
85°	4.9	4.9	4.9	2.4	2.4	2.4	2.4	4.9	4.9
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)