

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: P857903

Luminaire Tested: **LD4C40D010 EU4409030 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857903
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: LD4C40D010 EU4409030 4LBMDSWGPH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

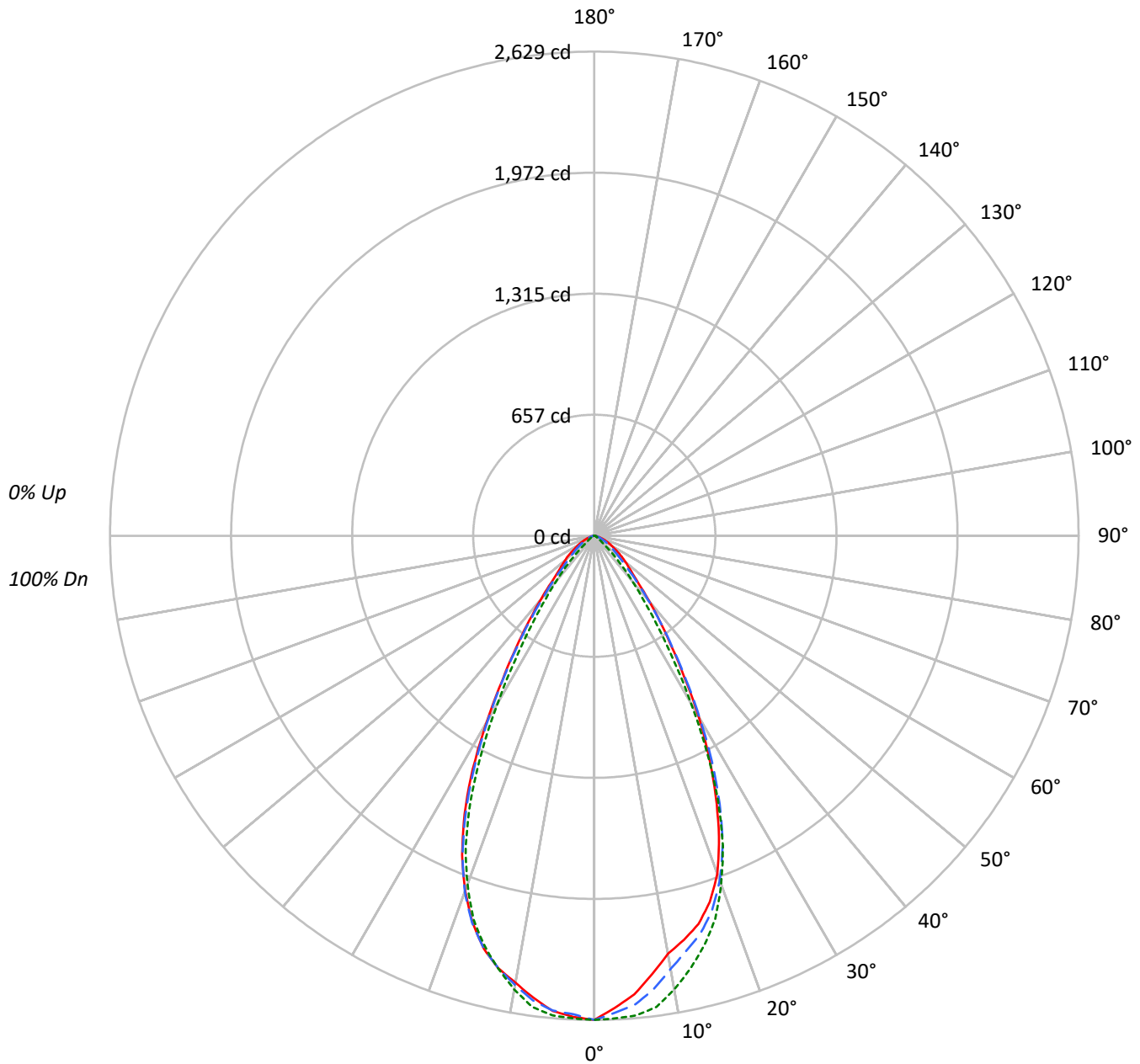
Lumens per Lamp: N/A
Luminaire Lumens: 2393.0 lumens
Efficiency: N/A
Efficacy: 50.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	322945	322945	322945
5°	308159	322427	319418
10°	287409	311972	307418
15°	277535	293027	295087
20°	255292	263254	268039
25°	211600	215449	225900
30°	160967	148867	165578
35°	108988	89206	110203
40°	74221	51111	71944
45°	51497	25748	48665
50°	41895	10474	39181
55°	33906	6511	30865
60°	26929	4988	24448
65°	21250	4128	18895
70°	16056	3628	14584
75°	11582	2895	10585
80°	8631	2901	7146
85°	5779	2819	5779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	10.1
10°-20°	635.0	26.5
20°-30°	728.6	30.4
30°-40°	442.6	18.5
40°-50°	189.7	7.9
50°-60°	91.0	3.8
60°-70°	44.2	1.8
70°-80°	16.4	0.7
80°-90°	3.8	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°	1605.3	67.1
0°-40°	2047.9	85.6
0°-60°	2328.6	97.3
0°-90°	2393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2393.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2629	2629	2629	2629	2629	
5°	2499	2554	2614	2588	2590	232
15°	2182	2233	2304	2318	2320	608
25°	1561	1612	1589	1650	1666	708
35°	727	737	595	719	735	466
45°	296	264	148	238	280	241
55°	158	118	30	106	144	143
65°	73	49	14	45	65	74
75°	24	16	6	14	22	27
85°	4	4	2	2	4	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°	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7	2628.7
2.5°	2565.7	2594.2	2592.1	2616.5	2622.6	2616.5	2600.3	2616.5	2614.5
5°	2498.8	2531.2	2553.6	2594.2	2614.5	2610.4	2588.1	2592.1	2590.1
7.5°	2401.3	2441.9	2480.5	2541.4	2580.0	2577.9	2545.5	2539.4	2531.2
10°	2303.9	2342.5	2387.1	2450.0	2500.8	2508.9	2476.4	2468.3	2464.3
12.5°	2247.1	2277.5	2308.0	2362.8	2407.4	2423.7	2405.4	2407.4	2405.4
15°	2182.1	2212.6	2232.9	2273.4	2303.9	2326.2	2318.1	2330.3	2320.1
17.5°	2084.7	2121.2	2129.3	2159.8	2182.1	2196.3	2204.4	2216.6	2200.4
20°	1952.7	1981.1	1991.3	2003.5	2013.6	2031.9	2056.3	2068.4	2050.2
22.5°	1768.0	1822.8	1820.8	1814.7	1824.8	1830.9	1869.5	1889.8	1875.6
25°	1561.0	1617.8	1611.7	1587.4	1589.4	1601.6	1650.3	1676.7	1666.5
27.5°	1343.8	1396.5	1382.3	1335.7	1323.5	1341.7	1404.7	1435.1	1429.0
30°	1134.7	1169.2	1146.9	1063.6	1049.4	1071.8	1153.0	1183.4	1167.2
32.5°	909.4	935.8	925.6	824.1	799.8	822.1	917.5	945.9	927.6
35°	726.7	751.1	736.8	617.1	594.8	619.1	718.6	751.1	734.8
37.5°	582.6	600.8	582.6	454.7	434.4	458.7	554.2	596.8	576.5
40°	462.8	477.0	452.7	334.9	318.7	330.9	420.2	462.8	448.6
42.5°	365.4	375.5	349.1	245.6	227.3	243.6	316.7	355.2	347.1
45°	296.4	296.4	263.9	170.5	148.2	164.4	237.5	278.1	280.1
47.5°	253.7	247.6	207.0	113.7	85.3	107.6	188.8	231.4	237.5
50°	219.2	211.1	170.5	83.2	54.8	77.1	156.3	198.9	205.0
52.5°	188.8	182.7	142.1	65.0	38.6	58.9	131.9	172.5	178.6
55°	158.3	154.3	117.7	50.7	30.4	44.7	105.6	140.1	144.1
57.5°	129.9	123.8	95.4	42.6	24.4	36.5	87.3	115.7	119.8
60°	109.6	103.5	77.1	34.5	20.3	28.4	71.0	95.4	99.5
62.5°	91.3	85.3	62.9	28.4	16.2	24.4	56.8	77.1	81.2
65°	73.1	69.0	48.7	22.3	14.2	18.3	44.7	60.9	65.0
67.5°	58.9	54.8	38.6	18.3	12.2	14.2	34.5	48.7	52.8
70°	44.7	40.6	28.4	14.2	10.1	12.2	26.4	36.5	40.6
72.5°	32.5	30.4	22.3	12.2	8.1	10.1	18.3	26.4	30.4
75°	24.4	22.3	16.2	8.1	6.1	8.1	14.2	20.3	22.3
77.5°	16.2	16.2	12.2	6.1	6.1	6.1	10.1	14.2	14.2
80°	12.2	10.1	8.1	4.1	4.1	4.1	6.1	10.1	10.1
82.5°	8.1	6.1	6.1	4.1	4.1	4.1	4.1	6.1	6.1
85°	4.1	4.1	4.1	2.0	2.0	2.0	2.0	4.1	4.1
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)