

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: P857748

Luminaire Tested: **LD4C35D010 EU4359035 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857748
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 EU4359035 4LBMDSWGPH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

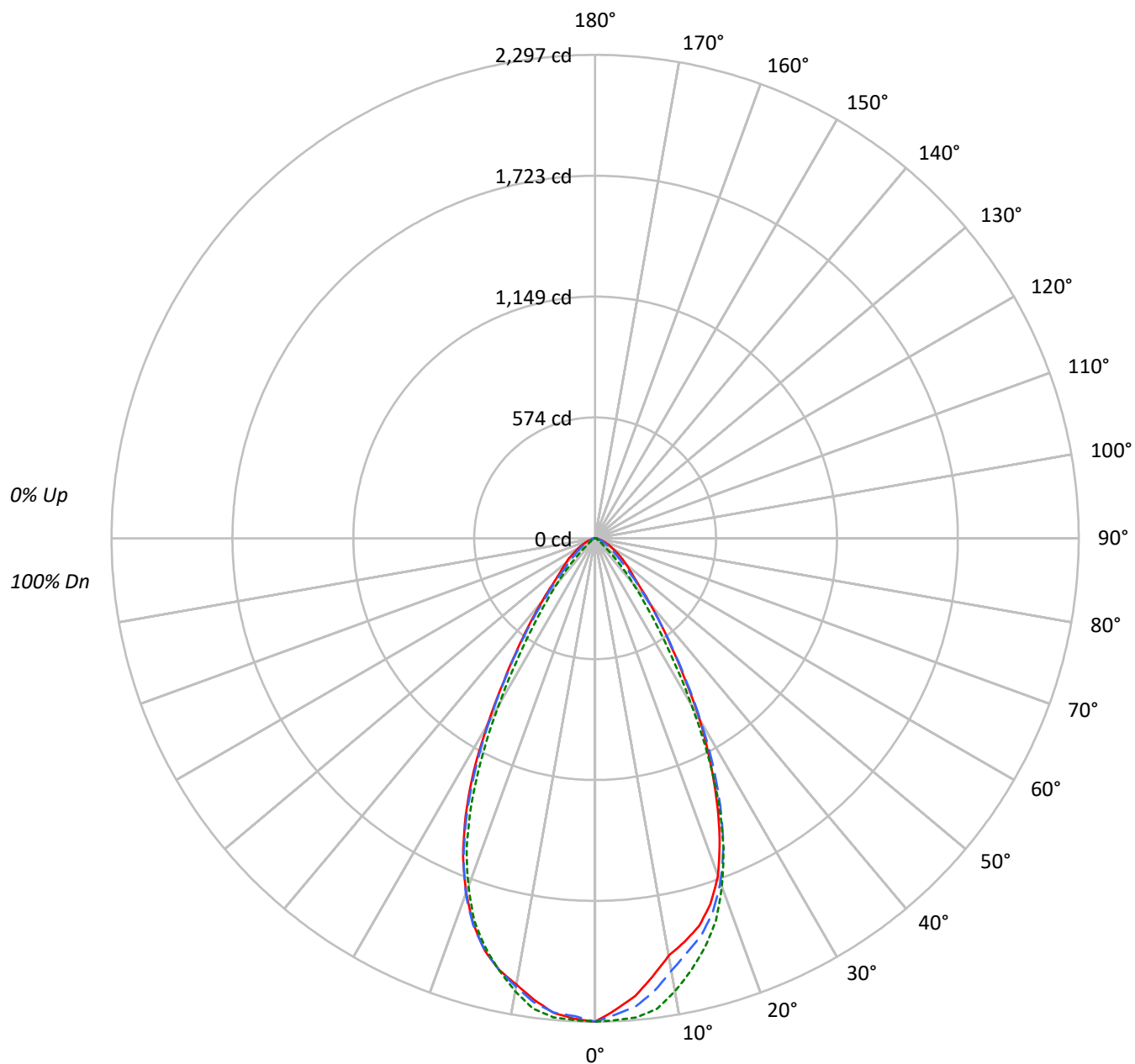
Lumens per Lamp: N/A
Luminaire Lumens: 2091.0 lumens
Efficiency: N/A
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	282182	282182	282182
5°	269263	281731	279104
10°	251132	272601	268621
15°	242508	256041	257847
20°	223078	230033	234204
25°	184895	188257	197393
30°	140653	130085	144682
35°	95235	77943	96300
40°	64855	44664	62867
45°	44999	22499	42532
50°	36620	9155	34231
55°	29622	5697	26966
60°	23539	4349	21352
65°	18575	3605	16512
70°	14009	3197	12752
75°	10110	2516	9256
80°	7499	2476	6297
85°	4934	2537	4934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	10.1
10°-20°	554.9	26.5
20°-30°	636.6	30.4
30°-40°	386.7	18.5
40°-50°	165.8	7.9
50°-60°	79.5	3.8
60°-70°	38.7	1.8
70°-80°	14.3	0.7
80°-90°	3.3	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°	1402.7	67.1
0°-40°	1789.4	85.6
0°-60°	2034.7	97.3
0°-90°	2091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2297	2297	2297	2297	2297	
5°	2183	2231	2284	2262	2263	203
15°	1907	1951	2013	2026	2027	531
25°	1364	1408	1389	1442	1456	619
35°	635	644	520	628	642	407
45°	259	231	130	208	245	210
55°	138	103	27	92	126	125
65°	64	43	12	39	57	65
75°	21	14	5	12	20	23
85°	4	4	2	2	4	5
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°	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9
2.5°	2241.9	2266.8	2265.0	2286.3	2291.6	2286.3	2272.1	2286.3	2284.5
5°	2183.4	2211.8	2231.3	2266.8	2284.5	2281.0	2261.5	2265.0	2263.2
7.5°	2098.3	2133.8	2167.5	2220.7	2254.4	2252.6	2224.2	2218.9	2211.8
10°	2013.1	2046.8	2085.9	2140.8	2185.2	2192.3	2163.9	2156.8	2153.3
12.5°	1963.5	1990.1	2016.7	2064.6	2103.6	2117.8	2101.8	2103.6	2101.8
15°	1906.7	1933.3	1951.1	1986.5	2013.1	2032.7	2025.6	2036.2	2027.3
17.5°	1821.6	1853.5	1860.6	1887.2	1906.7	1919.1	1926.2	1936.9	1922.7
20°	1706.3	1731.1	1740.0	1750.6	1759.5	1775.5	1796.8	1807.4	1791.4
22.5°	1544.9	1592.8	1591.0	1585.7	1594.6	1599.9	1633.6	1651.3	1638.9
25°	1364.0	1413.6	1408.3	1387.0	1388.8	1399.4	1442.0	1465.1	1456.2
27.5°	1174.2	1220.3	1207.9	1167.1	1156.4	1172.4	1227.4	1254.0	1248.7
30°	991.5	1021.6	1002.1	929.4	917.0	936.5	1007.5	1034.1	1019.9
32.5°	794.6	817.7	808.8	720.1	698.8	718.3	801.7	826.5	810.6
35°	635.0	656.3	643.9	539.2	519.7	541.0	627.9	656.3	642.1
37.5°	509.1	525.0	509.1	397.3	379.6	400.9	484.2	521.5	503.7
40°	404.4	416.8	395.5	292.7	278.5	289.1	367.2	404.4	392.0
42.5°	319.3	328.1	305.1	214.6	198.7	212.8	276.7	310.4	303.3
45°	259.0	259.0	230.6	149.0	129.5	143.7	207.5	243.0	244.8
47.5°	221.7	216.4	180.9	99.3	74.5	94.0	165.0	202.2	207.5
50°	191.6	184.5	149.0	72.7	47.9	67.4	136.6	173.8	179.1
52.5°	165.0	159.6	124.2	56.8	33.7	51.4	115.3	150.8	156.1
55°	138.3	134.8	102.9	44.3	26.6	39.0	92.2	122.4	125.9
57.5°	113.5	108.2	83.4	37.2	21.3	31.9	76.3	101.1	104.6
60°	95.8	90.5	67.4	30.2	17.7	24.8	62.1	83.4	86.9
62.5°	79.8	74.5	55.0	24.8	14.2	21.3	49.7	67.4	70.9
65°	63.9	60.3	42.6	19.5	12.4	16.0	39.0	53.2	56.8
67.5°	51.4	47.9	33.7	16.0	10.6	12.4	30.2	42.6	46.1
70°	39.0	35.5	24.8	12.4	8.9	10.6	23.1	31.9	35.5
72.5°	28.4	26.6	19.5	10.6	7.1	8.9	16.0	23.1	26.6
75°	21.3	19.5	14.2	7.1	5.3	7.1	12.4	17.7	19.5
77.5°	14.2	14.2	10.6	5.3	5.3	5.3	8.9	12.4	12.4
80°	10.6	8.9	7.1	3.5	3.5	3.5	5.3	8.9	8.9
82.5°	7.1	5.3	5.3	3.5	3.5	3.5	3.5	5.3	5.3
85°	3.5	3.5	3.5	1.8	1.8	1.8	1.8	3.5	3.5
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)