

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: P857769

Luminaire Tested: **LD4C35D010 EU4359040 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857769
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 EU4359040 4LBMDSWGPH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

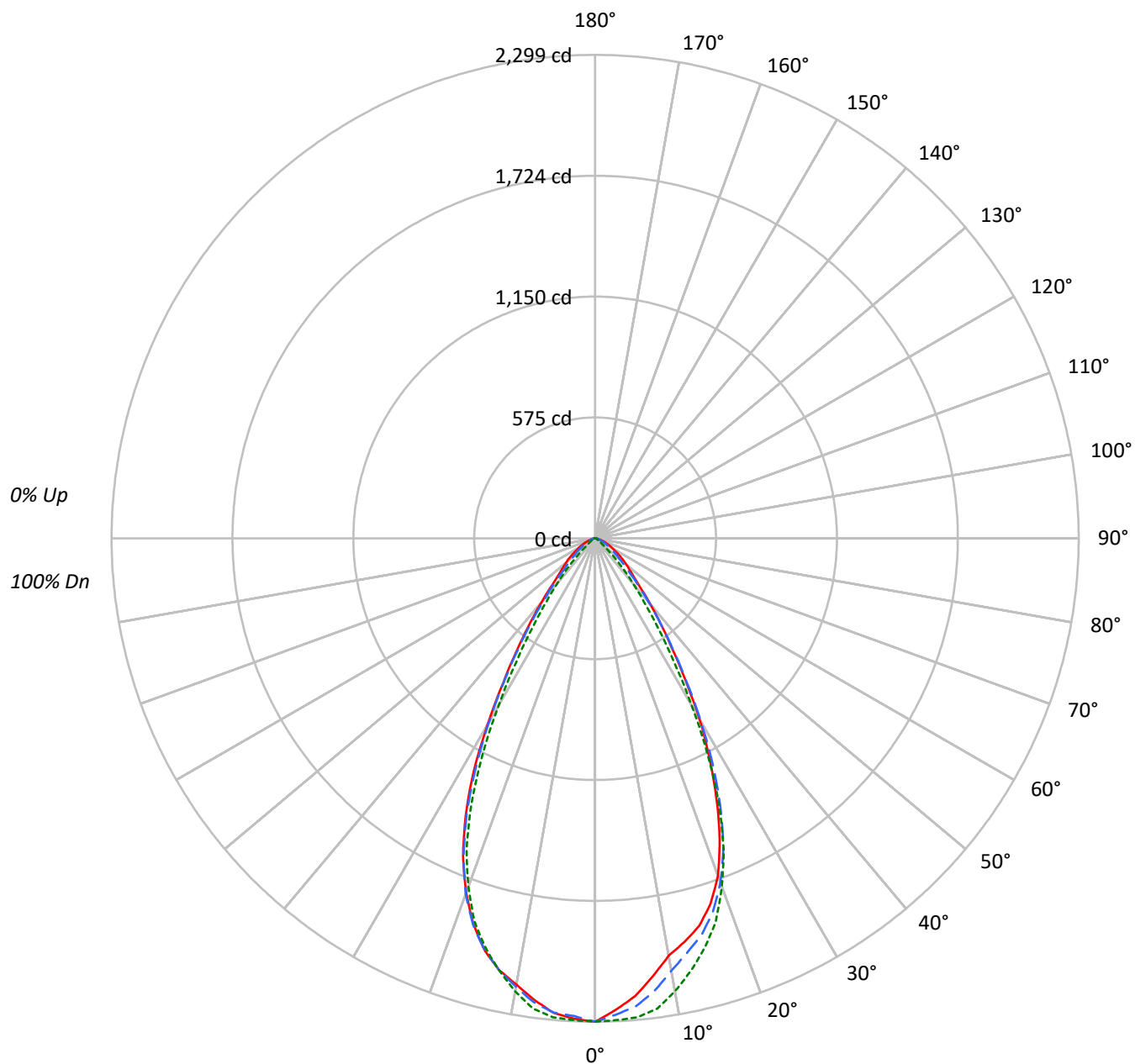
Lumens per Lamp: N/A
Luminaire Lumens: 2093.0 lumens
Efficiency: N/A
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P857769

CATALOG NUMBER: LD4C35D010 EU4359040 4LBMDSWGPH

Luminous Intensity Polar Plot





TEST NUMBER: P857769

CATALOG NUMBER: LD4C35D010 EU4359040 4LBMDSWGPH

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°	282452	282452	282452
5°	269522	282002	279375
10°	251381	272863	268871
15°	242737	256295	258101
20°	223287	230256	234426
25°	185072	188433	197583
30°	140781	130212	144810
35°	95325	78018	96390
40°	64919	44696	62931
45°	45034	22517	42567
50°	36639	9155	34269
55°	29665	5697	27009
60°	23563	4374	21377
65°	18575	3605	16512
70°	14045	3197	12752
75°	10110	2516	9256
80°	7570	2547	6297
85°	5075	2537	5075



TEST NUMBER: P857769

CATALOG NUMBER: LD4C35D010 EU4359040 4LBMDSWGPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	10.1
10°-20°	555.4	26.5
20°-30°	637.2	30.4
30°-40°	387.1	18.5
40°-50°	165.9	7.9
50°-60°	79.6	3.8
60°-70°	38.7	1.8
70°-80°	14.4	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°	1404.0	67.1
0°-40°	1791.1	85.6
0°-60°	2036.6	97.3
0°-90°	2093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2299	2299	2299	2299	2299	
5°	2186	2233	2287	2264	2265	203
15°	1908	1953	2015	2028	2029	531
25°	1365	1410	1390	1443	1458	619
35°	636	644	520	628	643	407
45°	259	231	130	208	245	211
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	



TEST NUMBER: P857769

CATALOG NUMBER: LD4C35D010 EU4359040 4LBMSWGPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2299.1	2299.1	2299.1	2299.1	2299.1	2299.1	2299.1	2299.1	2299.1
2.5°	2244.1	2268.9	2267.2	2288.5	2293.8	2288.5	2274.3	2288.5	2286.7
5°	2185.5	2213.9	2233.4	2268.9	2286.7	2283.2	2263.6	2267.2	2265.4
7.5°	2100.3	2135.8	2169.5	2222.8	2256.5	2254.7	2226.3	2221.0	2213.9
10°	2015.1	2048.8	2087.9	2142.9	2187.3	2194.4	2166.0	2158.9	2155.3
12.5°	1965.4	1992.0	2018.6	2066.6	2105.6	2119.8	2103.8	2105.6	2103.8
15°	1908.5	1935.2	1952.9	1988.4	2015.1	2034.6	2027.5	2038.1	2029.3
17.5°	1823.3	1855.3	1862.4	1889.0	1908.5	1921.0	1928.1	1938.7	1924.5
20°	1707.9	1732.8	1741.7	1752.3	1761.2	1777.2	1798.5	1809.1	1793.1
22.5°	1546.4	1594.3	1592.5	1587.2	1596.1	1601.4	1635.1	1652.9	1640.5
25°	1365.3	1415.0	1409.7	1388.4	1390.1	1400.8	1443.4	1466.5	1457.6
27.5°	1175.3	1221.5	1209.0	1168.2	1157.6	1173.5	1228.6	1255.2	1249.9
30°	992.4	1022.6	1003.1	930.3	917.9	937.4	1008.4	1035.1	1020.8
32.5°	795.4	818.5	809.6	720.8	699.5	719.0	802.5	827.3	811.4
35°	635.6	656.9	644.5	539.7	520.2	541.5	628.5	656.9	642.7
37.5°	509.5	525.5	509.5	397.7	379.9	401.2	484.7	522.0	504.2
40°	404.8	417.2	395.9	292.9	278.7	289.4	367.5	404.8	392.4
42.5°	319.6	328.4	305.4	214.8	198.8	213.0	277.0	310.7	303.6
45°	259.2	259.2	230.8	149.1	129.6	143.8	207.7	243.2	245.0
47.5°	221.9	216.6	181.1	99.4	74.6	94.1	165.1	202.4	207.7
50°	191.7	184.6	149.1	72.8	47.9	67.5	136.7	174.0	179.3
52.5°	165.1	159.8	124.3	56.8	33.7	51.5	115.4	150.9	156.2
55°	138.5	134.9	103.0	44.4	26.6	39.1	92.3	122.5	126.1
57.5°	113.6	108.3	83.4	37.3	21.3	32.0	76.3	101.2	104.7
60°	95.9	90.5	67.5	30.2	17.8	24.9	62.1	83.4	87.0
62.5°	79.9	74.6	55.0	24.9	14.2	21.3	49.7	67.5	71.0
65°	63.9	60.4	42.6	19.5	12.4	16.0	39.1	53.3	56.8
67.5°	51.5	47.9	33.7	16.0	10.7	12.4	30.2	42.6	46.2
70°	39.1	35.5	24.9	12.4	8.9	10.7	23.1	32.0	35.5
72.5°	28.4	26.6	19.5	10.7	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	17.8	19.5
77.5°	14.2	14.2	10.7	5.3	5.3	5.3	8.9	12.4	12.4
80°	10.7	8.9	7.1	3.6	3.6	3.6	5.3	8.9	8.9
82.5°	7.1	5.3	5.3	3.6	3.6	3.6	3.6	5.3	5.3
85°	3.6	3.6	3.6	1.8	1.8	1.8	1.8	3.6	3.6
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)