

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: P859144

Luminaire Tested: **LD4C55D010 EU4559050 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859144
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: LD4C55D010 EU4559050 4LBMDSWMW
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

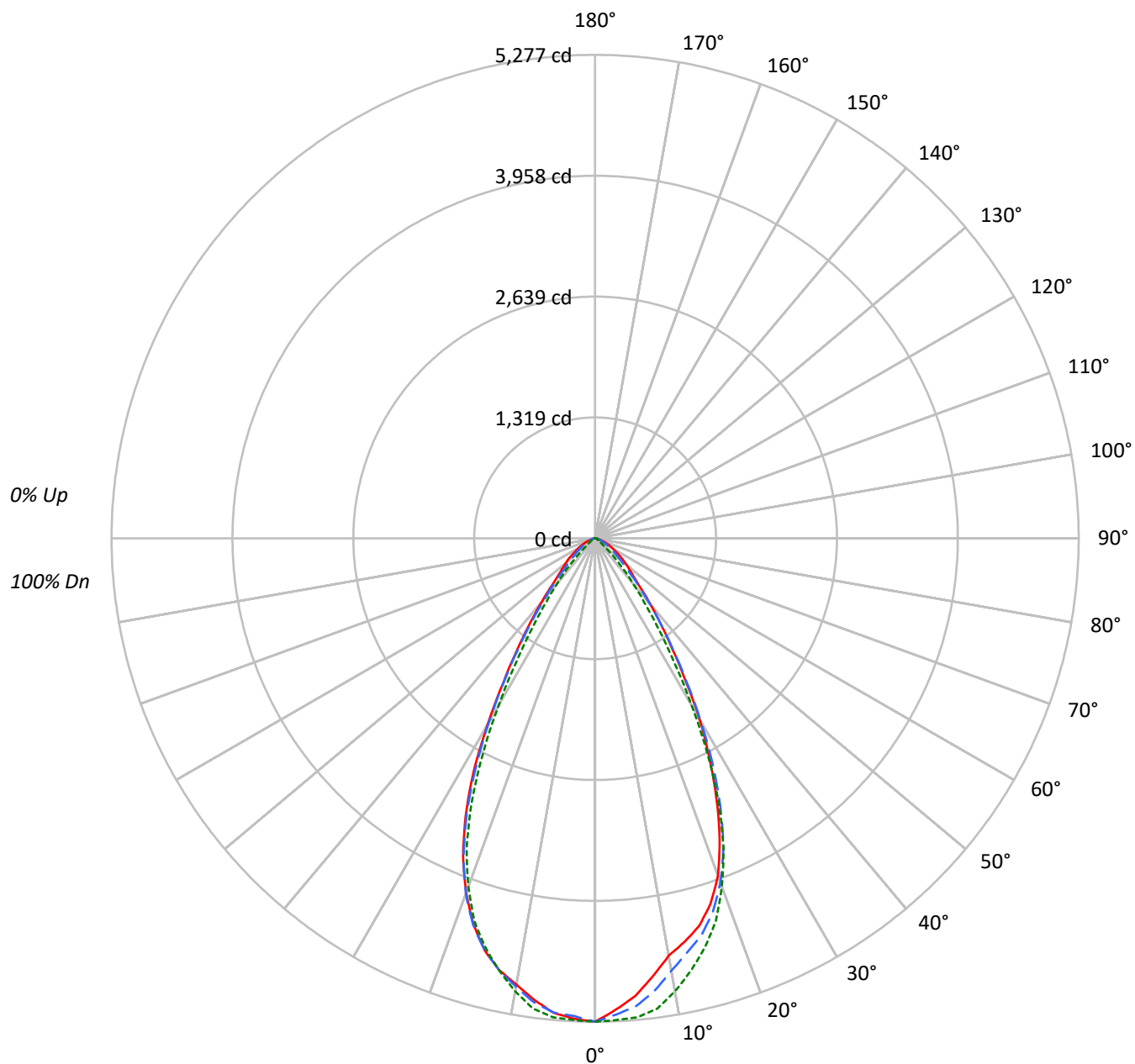
Lumens per Lamp: N/A
Luminaire Lumens: 4803.9 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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°	648310	648310	648310
5°	618624	647272	641241
10°	576975	626288	617132
15°	557157	588254	592400
20°	512506	528495	538078
25°	424785	432512	453509
30°	323141	298868	332390
35°	218786	179072	221230
40°	149003	102607	144433
45°	103359	51688	97695
50°	84115	21024	78667
55°	68069	13087	61965
60°	54056	10000	49068
65°	42645	8285	37907
70°	32184	7328	29275
75°	23211	5791	21265
80°	17263	5731	14433
85°	11418	5779	11418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.2	10.1
10°-20°	1274.8	26.5
20°-30°	1462.6	30.4
30°-40°	888.5	18.5
40°-50°	380.8	7.9
50°-60°	182.7	3.8
60°-70°	88.8	1.8
70°-80°	32.9	0.7
80°-90°	7.6	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°	3222.6	67.1
0°-40°	4111.1	85.6
0°-60°	4674.6	97.3
0°-90°	4803.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4803.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5277	5277	5277	5277	5277	
5°	5016	5126	5249	5196	5200	466
15°	4381	4482	4625	4654	4658	1220
25°	3134	3236	3191	3313	3346	1422
35°	1459	1479	1194	1442	1475	935
45°	595	530	298	477	562	483
55°	318	236	61	212	289	287
65°	147	98	28	90	130	149
75°	49	33	12	28	45	54
85°	8	8	4	4	8	11
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°	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1	5277.1
2.5°	5150.8	5207.8	5203.8	5252.7	5264.9	5252.7	5220.1	5252.7	5248.6
5°	5016.3	5081.5	5126.3	5207.8	5248.6	5240.4	5195.6	5203.8	5199.7
7.5°	4820.7	4902.2	4979.6	5101.9	5179.3	5175.2	5110.0	5097.8	5081.5
10°	4625.1	4702.5	4792.2	4918.5	5020.4	5036.7	4971.5	4955.2	4947.0
12.5°	4511.0	4572.1	4633.3	4743.3	4832.9	4865.5	4828.9	4832.9	4828.9
15°	4380.6	4441.7	4482.5	4564.0	4625.1	4669.9	4653.6	4678.1	4657.7
17.5°	4185.0	4258.4	4274.7	4335.8	4380.6	4409.1	4425.4	4449.9	4417.3
20°	3920.1	3977.2	3997.6	4022.0	4042.4	4079.1	4128.0	4152.4	4115.7
22.5°	3549.3	3659.3	3655.3	3643.0	3663.4	3675.6	3753.1	3793.8	3765.3
25°	3133.7	3247.8	3235.5	3186.6	3190.7	3215.2	3313.0	3365.9	3345.6
27.5°	2697.6	2803.6	2775.1	2681.3	2656.9	2693.6	2819.9	2881.0	2868.8
30°	2277.9	2347.2	2302.4	2135.3	2106.8	2151.6	2314.6	2375.7	2343.1
32.5°	1825.6	1878.6	1858.2	1654.4	1605.5	1650.4	1841.9	1898.9	1862.3
35°	1458.8	1507.7	1479.2	1238.8	1194.0	1242.9	1442.5	1507.7	1475.1
37.5°	1169.5	1206.2	1169.5	912.8	872.0	920.9	1112.5	1198.0	1157.3
40°	929.1	957.6	908.7	672.4	639.8	664.2	843.5	929.1	900.6
42.5°	733.5	753.9	700.9	493.1	456.4	489.0	635.7	713.1	696.8
45°	594.9	594.9	529.7	342.3	297.5	330.1	476.8	558.3	562.3
47.5°	509.4	497.1	415.6	228.2	171.1	216.0	379.0	464.5	476.8
50°	440.1	423.8	342.3	167.1	110.0	154.8	313.8	399.3	411.6
52.5°	379.0	366.7	285.2	130.4	77.4	118.2	264.9	346.4	358.6
55°	317.8	309.7	236.3	101.9	61.1	89.6	211.9	281.2	289.3
57.5°	260.8	248.6	191.5	85.6	48.9	73.3	175.2	232.3	240.4
60°	220.0	207.8	154.8	69.3	40.7	57.0	142.6	191.5	199.7
62.5°	183.4	171.1	126.3	57.0	32.6	48.9	114.1	154.8	163.0
65°	146.7	138.5	97.8	44.8	28.5	36.7	89.6	122.2	130.4
67.5°	118.2	110.0	77.4	36.7	24.4	28.5	69.3	97.8	105.9
70°	89.6	81.5	57.0	28.5	20.4	24.4	53.0	73.3	81.5
72.5°	65.2	61.1	44.8	24.4	16.3	20.4	36.7	53.0	61.1
75°	48.9	44.8	32.6	16.3	12.2	16.3	28.5	40.7	44.8
77.5°	32.6	32.6	24.4	12.2	12.2	12.2	20.4	28.5	28.5
80°	24.4	20.4	16.3	8.1	8.1	8.1	12.2	20.4	20.4
82.5°	16.3	12.2	12.2	8.1	8.1	8.1	8.1	12.2	12.2
85°	8.1	8.1	8.1	4.1	4.1	4.1	4.1	8.1	8.1
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)