

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: P859142

Luminaire Tested: **LD4C55D010 EU4559050 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859142
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 4LBMDSWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

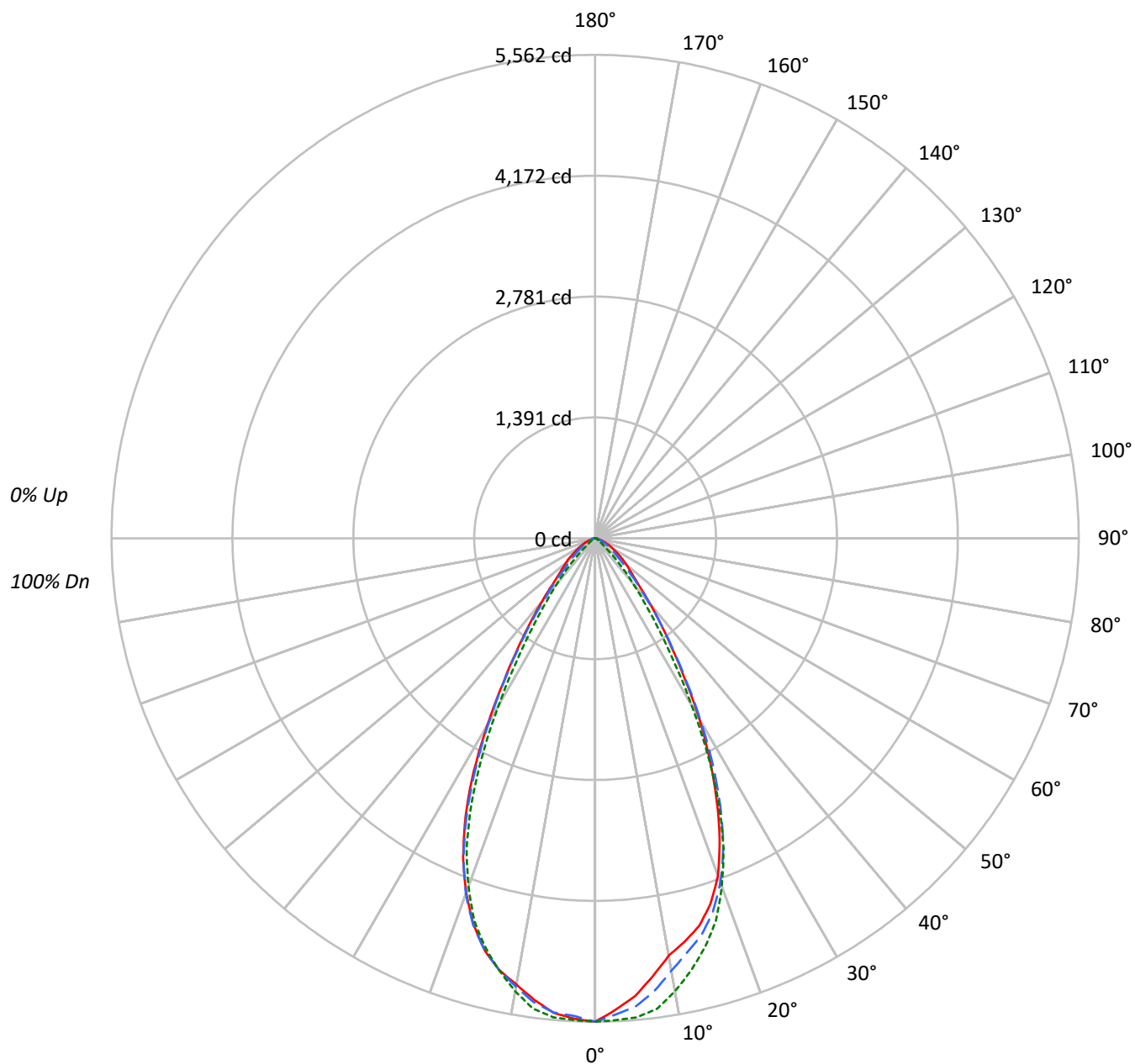
Lumens per Lamp: N/A
Luminaire Lumens: 5063.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P859142

CATALOG NUMBER: LD4C55D010 EU4559050 4LBMDSWH

Luminous Intensity Polar Plot





TEST NUMBER: P859142

CATALOG NUMBER: LD4C55D010 EU4559050 4LBMDSWH

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°	683262	683262	683262
5°	651983	682172	675809
10°	608087	660058	650415
15°	587198	619974	624337
20°	540144	556983	567089
25°	447680	455827	477949
30°	340561	314984	350321
35°	230589	188715	233168
40°	157038	108140	152211
45°	108936	54468	102976
50°	88644	22171	82910
55°	71753	13794	65306
60°	56979	10541	51697
65°	44942	8750	39942
70°	33944	7723	30855
75°	24445	6123	22404
80°	18253	6084	15211
85°	12122	6061	12122



TEST NUMBER: P859142

CATALOG NUMBER: LD4C55D010 EU4559050 4LBMDSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.3	10.1
10°-20°	1343.5	26.5
20°-30°	1541.5	30.4
30°-40°	936.4	18.5
40°-50°	401.3	7.9
50°-60°	192.5	3.8
60°-70°	93.6	1.8
70°-80°	34.7	0.7
80°-90°	8.0	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°	3396.4	67.1
0°-40°	4332.8	85.6
0°-60°	4926.7	97.3
0°-90°	5063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5063.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5562	5562	5562	5562	5562	
5°	5287	5403	5532	5476	5480	491
15°	4617	4724	4874	4904	4909	1285
25°	3303	3410	3363	3492	3526	1498
35°	1538	1559	1258	1520	1555	985
45°	627	558	314	502	593	509
55°	335	249	64	223	305	302
65°	155	103	30	94	137	157
75°	52	34	13	30	47	57
85°	9	9	4	4	9	12
90°	0	0	0	0	0	



TEST NUMBER: P859142

CATALOG NUMBER: LD4C55D010 EU4559050 4LBMDSWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5561.6	5561.6	5561.6	5561.6	5561.6	5561.6	5561.6	5561.6	5561.6
2.5°	5428.5	5488.6	5484.3	5535.9	5548.7	5535.9	5501.5	5535.9	5531.6
5°	5286.8	5355.5	5402.7	5488.6	5531.6	5523.0	5475.7	5484.3	5480.0
7.5°	5080.6	5166.5	5248.1	5377.0	5458.6	5454.3	5385.5	5372.7	5355.5
10°	4874.5	4956.1	5050.6	5183.7	5291.1	5308.2	5239.5	5222.4	5213.8
12.5°	4754.2	4818.6	4883.1	4999.0	5093.5	5127.9	5089.2	5093.5	5089.2
15°	4616.8	4681.2	4724.2	4810.1	4874.5	4921.7	4904.5	4930.3	4908.8
17.5°	4410.7	4488.0	4505.1	4569.6	4616.8	4646.9	4664.0	4689.8	4655.5
20°	4131.5	4191.6	4213.1	4238.9	4260.3	4299.0	4350.5	4376.3	4337.6
22.5°	3740.7	3856.6	3852.3	3839.5	3860.9	3873.8	3955.4	3998.4	3968.3
25°	3302.6	3422.9	3410.0	3358.5	3362.7	3388.5	3491.6	3547.4	3525.9
27.5°	2843.1	2954.8	2924.7	2825.9	2800.1	2838.8	2971.9	3036.4	3023.5
30°	2400.7	2473.7	2426.5	2250.4	2220.4	2267.6	2439.4	2503.8	2469.5
32.5°	1924.0	1979.9	1958.4	1743.6	1692.1	1739.4	1941.2	2001.3	1962.7
35°	1537.5	1589.0	1559.0	1305.6	1258.3	1309.9	1520.3	1589.0	1554.7
37.5°	1232.6	1271.2	1232.6	962.0	919.1	970.6	1172.5	1262.6	1219.7
40°	979.2	1009.3	957.7	708.6	674.3	700.0	889.0	979.2	949.1
42.5°	773.0	794.5	738.7	519.7	481.0	515.4	670.0	751.6	734.4
45°	627.0	627.0	558.3	360.8	313.5	347.9	502.5	588.4	592.7
47.5°	536.8	524.0	438.1	240.5	180.4	227.6	399.4	489.6	502.5
50°	463.8	446.6	360.8	176.1	116.0	163.2	330.7	420.9	433.8
52.5°	399.4	386.5	300.6	137.4	81.6	124.5	279.2	365.0	377.9
55°	335.0	326.4	249.1	107.4	64.4	94.5	223.3	296.3	304.9
57.5°	274.9	262.0	201.9	90.2	51.5	77.3	184.7	244.8	253.4
60°	231.9	219.0	163.2	73.0	42.9	60.1	150.3	201.9	210.4
62.5°	193.3	180.4	133.1	60.1	34.4	51.5	120.3	163.2	171.8
65°	154.6	146.0	103.1	47.2	30.1	38.7	94.5	128.8	137.4
67.5°	124.5	116.0	81.6	38.7	25.8	30.1	73.0	103.1	111.7
70°	94.5	85.9	60.1	30.1	21.5	25.8	55.8	77.3	85.9
72.5°	68.7	64.4	47.2	25.8	17.2	21.5	38.7	55.8	64.4
75°	51.5	47.2	34.4	17.2	12.9	17.2	30.1	42.9	47.2
77.5°	34.4	34.4	25.8	12.9	12.9	12.9	21.5	30.1	30.1
80°	25.8	21.5	17.2	8.6	8.6	8.6	12.9	21.5	21.5
82.5°	17.2	12.9	12.9	8.6	8.6	8.6	8.6	12.9	12.9
85°	8.6	8.6	8.6	4.3	4.3	4.3	4.3	8.6	8.6
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)