

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: P859060

Luminaire Tested: **LD4C55D010 EU4559027 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C55D010 EU4559027 4LBMDSWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

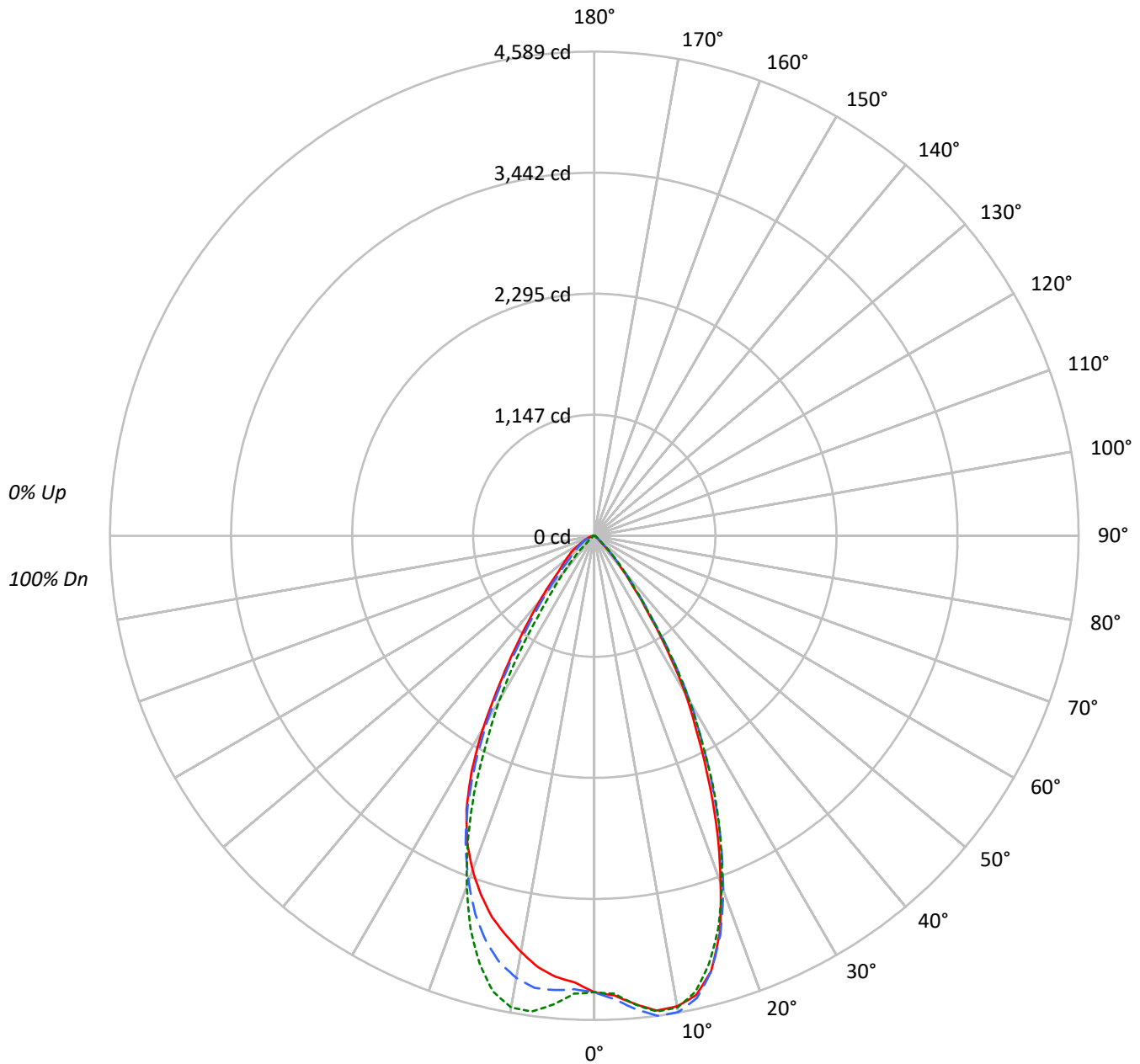
Lumens per Lamp: N/A
Luminaire Lumens: 3846.0 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P859060

CATALOG NUMBER: LD4C55D010 EU4559027 4LBMDSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P859060

CATALOG NUMBER: LD4C55D010 EU4559027 4LBMDSWLI

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	111	108	106		111	108	106	104		104	103	101		101	99	98		97	96	95
2	108	103	99	95		105	101	97	94		98	95	92		95	92	90		92	90	88
3	102	96	91	87		100	94	90	86		92	88	85		89	86	83		87	84	82
4	97	89	84	80		95	88	83	79		86	82	78		84	80	77		82	79	76
5	92	84	78	74		91	83	77	73		81	76	73		79	75	72		78	74	71
6	88	79	73	68		86	78	72	68		76	71	68		75	71	67		74	70	67
7	83	74	68	64		82	73	68	64		72	67	63		71	66	63		70	66	63
8	79	70	64	60		78	69	64	60		68	63	59		67	63	59		66	62	59
9	76	66	60	56		75	66	60	56		65	60	56		64	59	56		63	59	56
10	72	63	57	53		71	62	57	53		61	56	53		61	56	53		60	56	52

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	531452	531452	531452
5°	549551	549908	517413
10°	564762	566247	499381
15°	543420	534009	476011
20°	457557	461819	440914
25°	347574	365236	388118
30°	244451	254538	298642
35°	131889	138098	197609
40°	63636	70276	128203
45°	22638	30874	83344
50°	8486	10760	66779
55°	6340	7604	55175
60°	5086	5823	40001
65°	4302	5174	30988
70°	3197	4239	24461
75°	2801	4225	18275
80°	2122	4174	12593
85°	0	4229	8317



TEST NUMBER: P859060

CATALOG NUMBER: LD4C55D010 EU4559027 4LBMDSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.2	11.0
10°-20°	1136.2	29.5
20°-30°	1232.5	32.0
30°-40°	683.8	17.8
40°-50°	217.8	5.7
50°-60°	87.8	2.3
60°-70°	44.4	1.2
70°-80°	18.4	0.5
80°-90°	3.8	0.1
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°	2790.0	72.5
0°-40°	3473.8	90.3
0°-60°	3779.4	98.3
0°-90°	3846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3846.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4326	4326	4326	4326	4326	
5°	4456	4504	4459	4323	4196	428
15°	4273	4276	4199	3974	3743	1168
25°	2564	2671	2694	2840	2863	1171
35°	879	950	921	1217	1318	583
45°	130	154	178	397	480	125
55°	30	30	36	190	258	27
65°	15	15	18	86	107	15
75°	6	6	9	30	38	7
85°	0	0	3	6	6	0
90°	0	0	0	0	0	



TEST NUMBER: P859060

CATALOG NUMBER: LD4C55D010 EU4559027 4LBMDSWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9
2.5°	4361.4	4399.9	4396.9	4367.3	4343.7	4334.8	4302.2	4263.7	4237.1
5°	4456.2	4503.5	4503.5	4479.9	4459.1	4408.8	4322.9	4240.0	4195.6
7.5°	4539.1	4586.4	4589.4	4571.6	4548.0	4465.0	4322.9	4189.7	4121.6
10°	4527.2	4562.8	4583.5	4565.7	4539.1	4429.5	4254.8	4077.2	4003.1
12.5°	4459.1	4491.7	4488.7	4462.1	4426.6	4314.0	4142.3	3958.7	3875.8
15°	4272.6	4290.4	4275.5	4245.9	4198.6	4112.7	3973.5	3816.6	3742.6
17.5°	3949.8	3973.5	3967.6	3920.2	3902.5	3819.6	3754.4	3633.0	3567.9
20°	3499.8	3573.8	3573.8	3538.3	3532.4	3476.1	3485.0	3419.8	3372.5
22.5°	3046.8	3111.9	3132.6	3117.8	3129.7	3103.0	3185.9	3168.2	3144.5
25°	2564.1	2629.3	2670.7	2664.8	2694.4	2694.4	2839.5	2875.0	2863.2
27.5°	2111.1	2173.3	2220.7	2232.5	2214.8	2247.3	2445.7	2516.8	2516.8
30°	1723.2	1773.6	1818.0	1818.0	1794.3	1818.0	2028.2	2111.1	2105.2
32.5°	1285.0	1341.3	1382.7	1376.8	1356.1	1388.7	1610.7	1693.6	1672.9
35°	879.4	917.9	950.5	938.6	920.8	974.1	1216.9	1320.6	1317.6
37.5°	595.1	630.7	651.4	642.5	636.6	698.8	920.8	1036.3	1030.4
40°	396.8	420.4	435.3	432.3	438.2	491.5	692.9	799.4	799.4
42.5°	251.7	266.5	281.3	281.3	296.1	352.3	527.0	618.8	618.8
45°	130.3	139.2	154.0	162.8	177.7	236.9	396.8	473.7	479.7
47.5°	62.2	65.1	71.1	74.0	85.9	148.0	305.0	387.9	405.6
50°	44.4	47.4	47.4	47.4	56.3	112.5	257.6	334.6	349.4
52.5°	35.5	35.5	35.5	38.5	44.4	94.7	222.1	290.2	302.0
55°	29.6	29.6	29.6	29.6	35.5	77.0	189.5	248.7	257.6
57.5°	23.7	23.7	23.7	23.7	29.6	62.2	156.9	198.4	201.3
60°	20.7	20.7	20.7	20.7	23.7	53.3	127.3	162.8	162.8
62.5°	17.8	17.8	17.8	17.8	20.7	44.4	106.6	133.2	130.3
65°	14.8	14.8	14.8	14.8	17.8	35.5	85.9	106.6	106.6
67.5°	11.8	11.8	11.8	11.8	14.8	29.6	68.1	85.9	85.9
70°	8.9	8.9	8.9	8.9	11.8	23.7	56.3	68.1	68.1
72.5°	8.9	8.9	8.9	8.9	8.9	17.8	41.5	53.3	50.3
75°	5.9	5.9	5.9	5.9	8.9	14.8	29.6	38.5	38.5
77.5°	5.9	5.9	5.9	5.9	5.9	11.8	23.7	26.6	26.6
80°	3.0	3.0	3.0	3.0	5.9	8.9	14.8	17.8	17.8
82.5°	0.0	3.0	0.0	3.0	3.0	5.9	11.8	11.8	11.8
85°	0.0	0.0	0.0	0.0	3.0	3.0	5.9	8.9	5.9
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0
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)