

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: P859080

Luminaire Tested: **LD4C55D010 EU4559030 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859080
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 EU4559030 4LBMDSWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

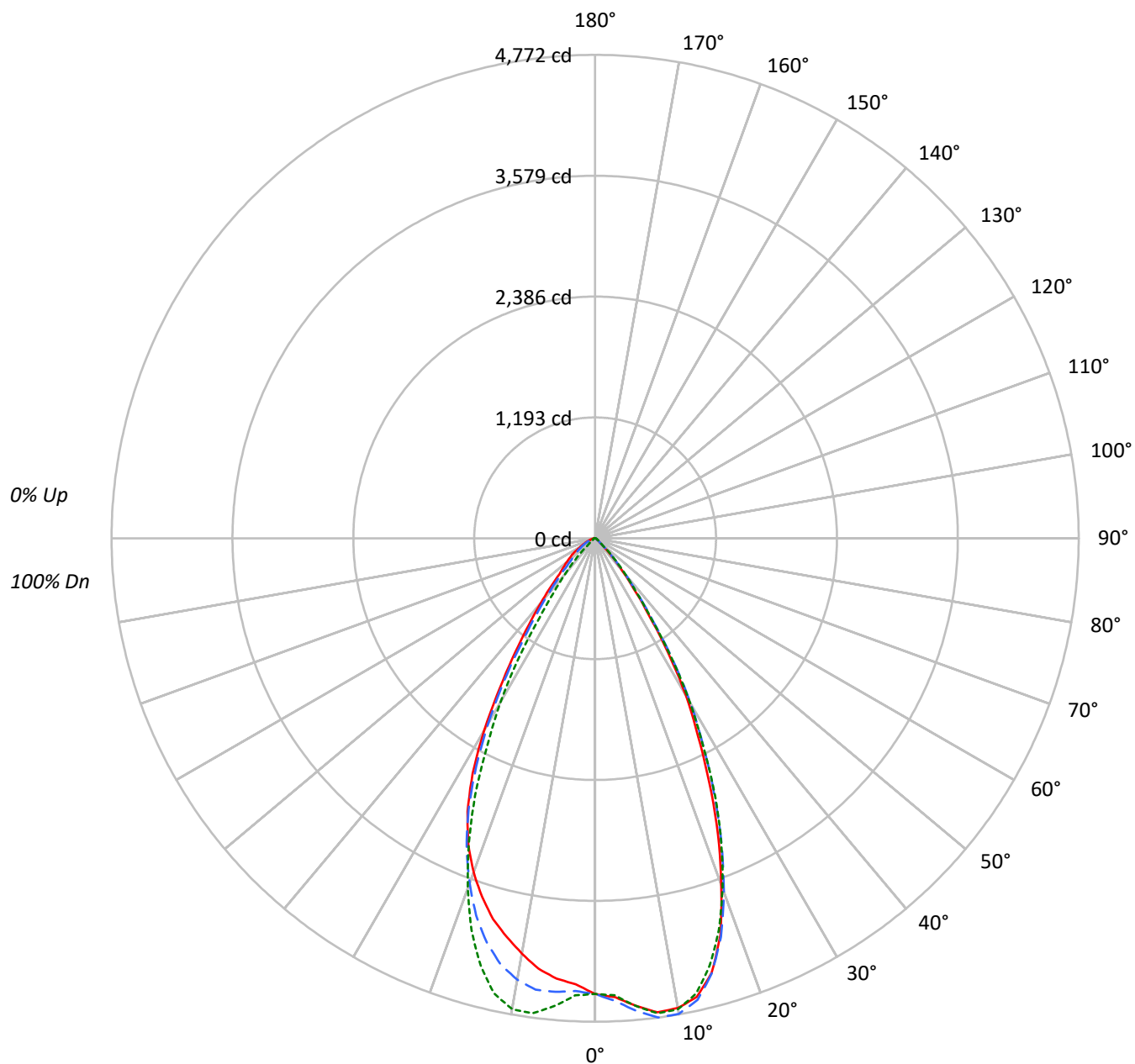
Lumens per Lamp: N/A
Luminaire Lumens: 3999.0 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P859080

CATALOG NUMBER: LD4C55D010 EU4559030 4LBMDSWLI

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	552595	552595	552595
5°	571404	571786	537996
10°	587230	588764	519254
15°	565042	555249	494949
20°	475755	480187	458446
25°	361414	379768	403557
30°	254183	264666	310529
35°	137138	143602	205468
40°	66154	73066	133303
45°	23542	32090	86645
50°	8830	11181	69436
55°	6597	7904	57360
60°	5307	6044	41598
65°	4477	5378	32209
70°	3305	4418	25431
75°	2943	4367	18987
80°	2193	4386	13088
85°	0	4370	8739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.9	11.0
10°-20°	1181.4	29.5
20°-30°	1281.6	32.0
30°-40°	711.1	17.8
40°-50°	226.5	5.7
50°-60°	91.3	2.3
60°-70°	46.2	1.2
70°-80°	19.1	0.5
80°-90°	4.0	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°	2901.0	72.5
0°-40°	3612.0	90.3
0°-60°	3929.8	98.3
0°-90°	3999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4498	4498	4498	4498	4498	
5°	4633	4683	4636	4495	4362	445
15°	4443	4446	4366	4132	3892	1215
25°	2666	2777	2802	2952	2977	1218
35°	914	988	958	1265	1370	607
45°	136	160	185	412	499	130
55°	31	31	37	197	268	28
65°	15	15	18	89	111	15
75°	6	6	9	31	40	7
85°	0	0	3	6	6	0
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°	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0
2.5°	4534.9	4574.9	4571.9	4541.1	4516.4	4507.2	4473.3	4433.3	4405.6
5°	4633.4	4682.7	4682.7	4658.1	4636.5	4584.2	4494.9	4408.7	4362.5
7.5°	4719.6	4768.9	4772.0	4753.5	4728.9	4642.7	4494.9	4356.4	4285.5
10°	4707.3	4744.3	4765.8	4747.4	4719.6	4605.7	4424.1	4239.4	4162.4
12.5°	4636.5	4670.4	4667.3	4639.6	4602.7	4485.7	4307.1	4116.2	4030.0
15°	4442.6	4461.0	4445.6	4414.9	4365.6	4276.3	4131.6	3968.4	3891.5
17.5°	4107.0	4131.6	4125.5	4076.2	4057.7	3971.5	3903.8	3777.6	3709.8
20°	3639.0	3716.0	3716.0	3679.0	3672.9	3614.4	3623.6	3555.9	3506.6
22.5°	3168.0	3235.7	3257.3	3241.9	3254.2	3226.5	3312.7	3294.2	3269.6
25°	2666.2	2733.9	2777.0	2770.8	2801.6	2801.6	2952.5	2989.4	2977.1
27.5°	2195.1	2259.8	2309.0	2321.3	2302.9	2336.7	2543.0	2616.9	2616.9
30°	1791.8	1844.1	1890.3	1890.3	1865.7	1890.3	2108.9	2195.1	2189.0
32.5°	1336.2	1394.6	1437.8	1431.6	1410.0	1443.9	1674.8	1761.0	1739.5
35°	914.4	954.4	988.3	975.9	957.5	1012.9	1265.3	1373.1	1370.0
37.5°	618.8	655.8	677.3	668.1	661.9	726.6	957.5	1077.5	1071.4
40°	412.5	437.2	452.6	449.5	455.6	511.1	720.4	831.2	831.2
42.5°	261.7	277.1	292.5	292.5	307.9	366.4	548.0	643.4	643.4
45°	135.5	144.7	160.1	169.3	184.7	246.3	412.5	492.6	498.7
47.5°	64.7	67.7	73.9	77.0	89.3	153.9	317.1	403.3	421.8
50°	46.2	49.3	49.3	49.3	58.5	117.0	267.8	347.9	363.3
52.5°	36.9	36.9	36.9	40.0	46.2	98.5	230.9	301.7	314.0
55°	30.8	30.8	30.8	30.8	36.9	80.0	197.0	258.6	267.8
57.5°	24.6	24.6	24.6	24.6	30.8	64.7	163.2	206.3	209.4
60°	21.6	21.6	21.6	21.6	24.6	55.4	132.4	169.3	169.3
62.5°	18.5	18.5	18.5	18.5	21.6	46.2	110.8	138.5	135.5
65°	15.4	15.4	15.4	15.4	18.5	36.9	89.3	110.8	110.8
67.5°	12.3	12.3	12.3	12.3	15.4	30.8	70.8	89.3	89.3
70°	9.2	9.2	9.2	9.2	12.3	24.6	58.5	70.8	70.8
72.5°	9.2	9.2	9.2	9.2	9.2	18.5	43.1	55.4	52.3
75°	6.2	6.2	6.2	6.2	9.2	15.4	30.8	40.0	40.0
77.5°	6.2	6.2	6.2	6.2	6.2	12.3	24.6	27.7	27.7
80°	3.1	3.1	3.1	3.1	6.2	9.2	15.4	18.5	18.5
82.5°	0.0	3.1	0.0	3.1	3.1	6.2	12.3	12.3	12.3
85°	0.0	0.0	0.0	0.0	3.1	3.1	6.2	9.2	6.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1
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)