

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: P859079

Luminaire Tested: **LD4C55D010 EU4559030 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859079
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 EU4559030 4LBMDSWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

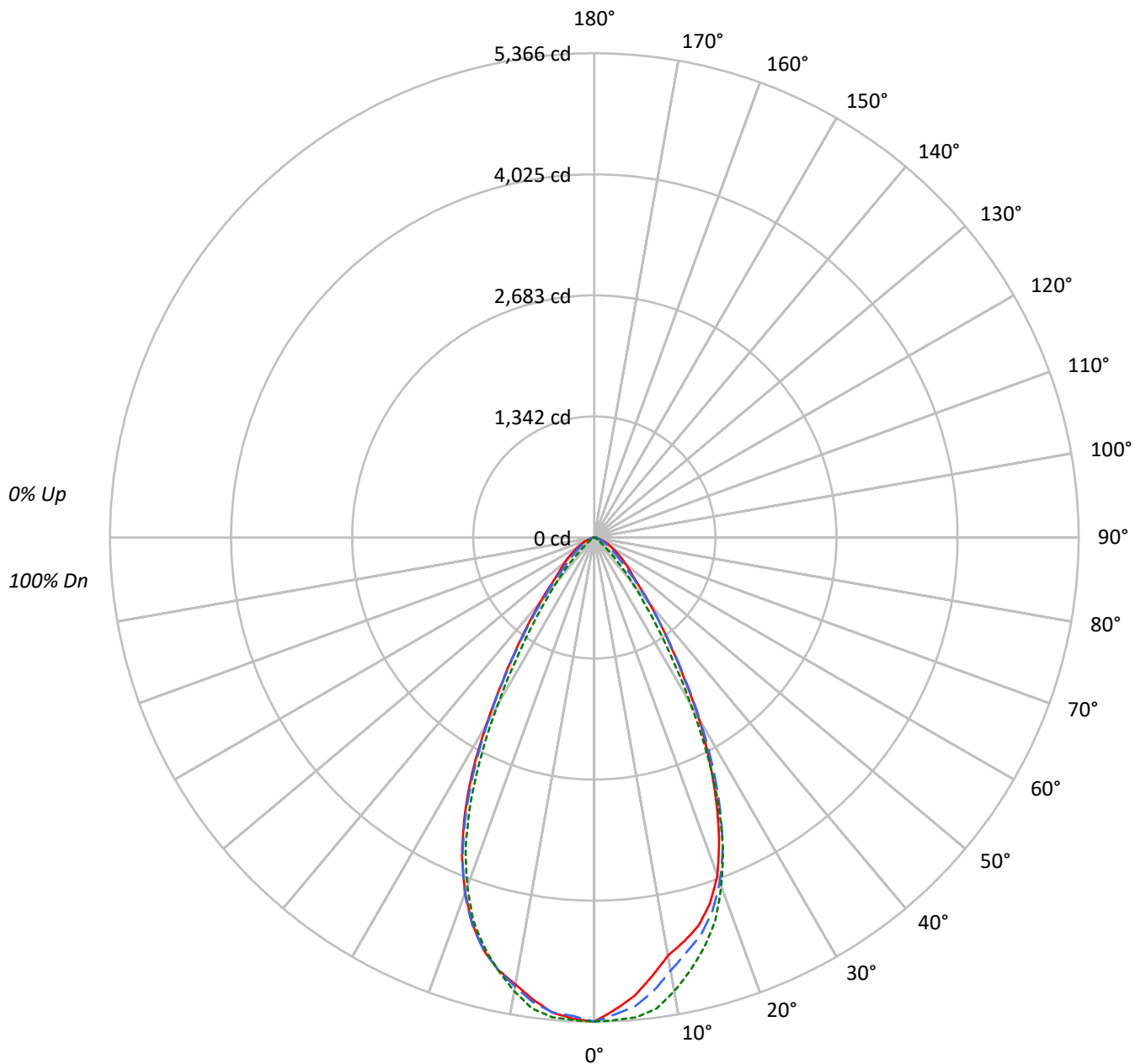
Lumens per Lamp: N/A
Luminaire Lumens: 4885.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	659244	659244	659244
5°	629057	658186	652057
10°	586706	636842	627548
15°	566556	598174	602397
20°	521148	537411	547151
25°	431942	439804	461154
30°	328588	303904	337993
35°	222475	182086	224965
40°	151521	104339	146870
45°	105113	52557	99345
50°	85529	21387	79986
55°	69226	13323	63014
60°	54989	10172	49879
65°	43372	8430	38546
70°	32759	7435	29778
75°	23591	5886	21645
80°	17616	5872	14645
85°	11700	5779	11700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.4	10.1
10°-20°	1296.3	26.5
20°-30°	1487.3	30.4
30°-40°	903.5	18.5
40°-50°	387.2	7.9
50°-60°	185.8	3.8
60°-70°	90.3	1.8
70°-80°	33.5	0.7
80°-90°	7.7	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°	3277.0	67.1
0°-40°	4180.5	85.6
0°-60°	4753.4	97.3
0°-90°	4885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4885.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5366	5366	5366	5366	5366	
5°	5101	5213	5337	5283	5287	474
15°	4454	4558	4703	4732	4736	1240
25°	3186	3290	3244	3369	3402	1445
35°	1483	1504	1214	1467	1500	951
45°	605	539	302	485	572	492
55°	323	240	62	216	294	292
65°	149	99	29	91	133	151
75°	50	33	12	29	46	55
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°	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1
2.5°	5237.6	5295.7	5291.5	5341.2	5353.7	5341.2	5308.1	5341.2	5337.1
5°	5100.9	5167.2	5212.8	5295.7	5337.1	5328.8	5283.2	5291.5	5287.4
7.5°	4902.0	4984.9	5063.6	5187.9	5266.7	5262.5	5196.2	5183.8	5167.2
10°	4703.1	4781.8	4873.0	5001.5	5105.0	5121.6	5055.3	5038.7	5030.5
12.5°	4587.1	4649.2	4711.4	4823.3	4914.4	4947.6	4910.3	4914.4	4910.3
15°	4454.5	4516.6	4558.1	4641.0	4703.1	4748.7	4732.1	4757.0	4736.3
17.5°	4255.6	4330.2	4346.7	4408.9	4454.5	4483.5	4500.1	4524.9	4491.8
20°	3986.2	4044.3	4065.0	4089.8	4110.6	4147.9	4197.6	4222.4	4185.1
22.5°	3609.2	3721.0	3716.9	3704.5	3725.2	3737.6	3816.4	3857.8	3828.8
25°	3186.5	3302.5	3290.1	3240.4	3244.5	3269.4	3368.8	3422.7	3402.0
27.5°	2743.1	2850.9	2821.9	2726.6	2701.7	2739.0	2867.4	2929.6	2917.2
30°	2316.3	2386.8	2341.2	2171.3	2142.3	2187.9	2353.6	2415.8	2382.6
32.5°	1856.4	1910.2	1889.5	1682.3	1632.6	1678.2	1873.0	1931.0	1893.7
35°	1483.4	1533.2	1504.2	1259.7	1214.1	1263.8	1466.9	1533.2	1500.0
37.5°	1189.2	1226.5	1189.2	928.2	886.8	936.5	1131.2	1218.3	1176.8
40°	944.8	973.8	924.0	683.7	650.6	675.4	857.7	944.8	915.8
42.5°	745.9	766.6	712.7	501.4	464.1	497.2	646.4	725.1	708.6
45°	605.0	605.0	538.7	348.1	302.5	335.6	484.8	567.7	571.8
47.5°	518.0	505.5	422.7	232.0	174.0	219.6	385.4	472.4	484.8
50°	447.5	430.9	348.1	169.9	111.9	157.5	319.1	406.1	418.5
52.5°	385.4	372.9	290.1	132.6	78.7	120.2	269.3	352.2	364.6
55°	323.2	314.9	240.3	103.6	62.2	91.2	215.5	285.9	294.2
57.5°	265.2	252.8	194.8	87.0	49.7	74.6	178.2	236.2	244.5
60°	223.8	211.3	157.5	70.4	41.4	58.0	145.0	194.8	203.0
62.5°	186.5	174.0	128.5	58.0	33.1	49.7	116.0	157.5	165.7
65°	149.2	140.9	99.4	45.6	29.0	37.3	91.2	124.3	132.6
67.5°	120.2	111.9	78.7	37.3	24.9	29.0	70.4	99.4	107.7
70°	91.2	82.9	58.0	29.0	20.7	24.9	53.9	74.6	82.9
72.5°	66.3	62.2	45.6	24.9	16.6	20.7	37.3	53.9	62.2
75°	49.7	45.6	33.1	16.6	12.4	16.6	29.0	41.4	45.6
77.5°	33.1	33.1	24.9	12.4	12.4	12.4	20.7	29.0	29.0
80°	24.9	20.7	16.6	8.3	8.3	8.3	12.4	20.7	20.7
82.5°	16.6	12.4	12.4	8.3	8.3	8.3	8.3	12.4	12.4
85°	8.3	8.3	8.3	4.1	4.1	4.1	4.1	8.3	8.3
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)