

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: P859062

Luminaire Tested: **LD4C55D010 EU4559027 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859062
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 EU4559027 4LBMDSWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

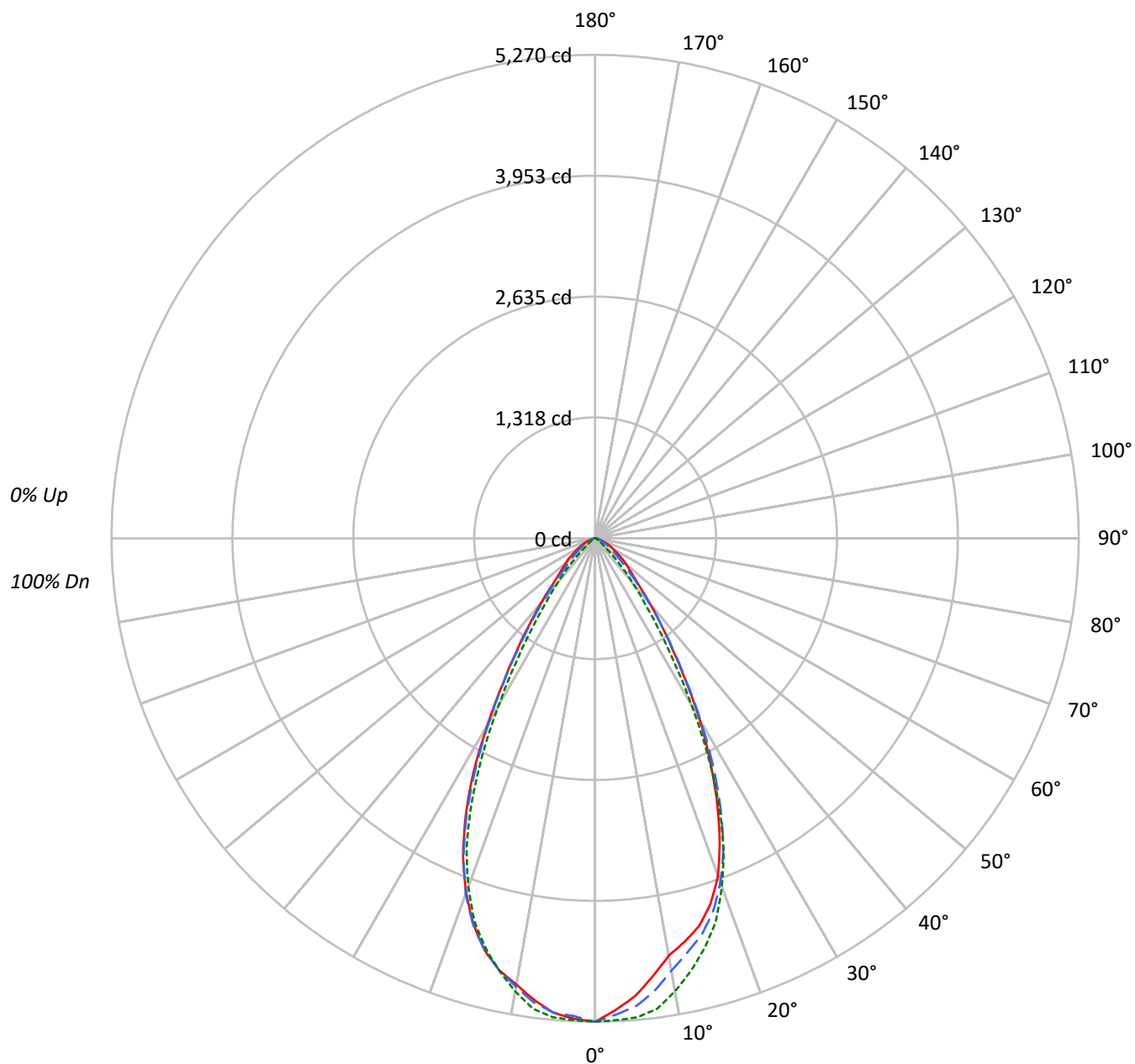
Lumens per Lamp: N/A
Luminaire Lumens: 4798.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	647499	647499	647499
5°	617859	646458	640440
10°	576252	625502	616371
15°	556470	587516	591662
20°	511878	527841	537411
25°	424256	431969	452940
30°	322743	298485	331978
35°	218516	178847	220960
40°	148811	102479	144256
45°	103237	51618	97573
50°	84019	21005	78572
55°	68005	13065	61900
60°	54006	10000	48994
65°	42587	8285	37849
70°	32148	7292	29239
75°	23164	5791	21265
80°	17263	5731	14362
85°	11418	5779	11418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.6	10.1
10°-20°	1273.2	26.5
20°-30°	1460.8	30.4
30°-40°	887.4	18.5
40°-50°	380.3	7.9
50°-60°	182.5	3.8
60°-70°	88.7	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°	3218.6	67.1
0°-40°	4106.0	85.6
0°-60°	4668.8	97.3
0°-90°	4798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4798.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5270	5270	5270	5270	5270	
5°	5010	5120	5242	5189	5193	465
15°	4375	4477	4619	4648	4652	1218
25°	3130	3232	3187	3309	3341	1420
35°	1457	1477	1192	1441	1473	934
45°	594	529	297	476	562	483
55°	318	236	61	212	289	287
65°	146	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°	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5
2.5°	5144.4	5201.3	5197.3	5246.1	5258.3	5246.1	5213.6	5246.1	5242.0
5°	5010.1	5075.2	5119.9	5201.3	5242.0	5233.9	5189.1	5197.3	5193.2
7.5°	4814.7	4896.1	4973.4	5095.5	5172.9	5168.8	5103.7	5091.5	5075.2
10°	4619.3	4696.7	4786.2	4912.4	5014.1	5030.4	4965.3	4949.0	4940.9
12.5°	4505.4	4566.4	4627.5	4737.4	4826.9	4859.5	4822.8	4826.9	4822.8
15°	4375.2	4436.2	4476.9	4558.3	4619.3	4664.1	4647.8	4672.3	4651.9
17.5°	4179.8	4253.1	4269.3	4330.4	4375.2	4403.6	4419.9	4444.3	4411.8
20°	3915.3	3972.2	3992.6	4017.0	4037.4	4074.0	4122.8	4147.2	4110.6
22.5°	3544.9	3654.8	3650.7	3638.5	3658.8	3671.1	3748.4	3789.1	3760.6
25°	3129.8	3243.7	3231.5	3182.7	3186.7	3211.2	3308.8	3361.7	3341.4
27.5°	2694.3	2800.1	2771.6	2678.0	2653.6	2690.2	2816.4	2877.4	2865.2
30°	2275.1	2344.3	2299.5	2132.6	2104.1	2148.9	2311.7	2372.8	2340.2
32.5°	1823.3	1876.2	1855.9	1652.4	1603.5	1648.3	1839.6	1896.6	1859.9
35°	1457.0	1505.9	1477.4	1237.3	1192.5	1241.3	1440.7	1505.9	1473.3
37.5°	1168.1	1204.7	1168.1	911.7	871.0	919.8	1111.1	1196.6	1155.9
40°	927.9	956.4	907.6	671.5	639.0	663.4	842.5	927.9	899.5
42.5°	732.6	752.9	700.0	492.5	455.8	488.4	634.9	712.2	696.0
45°	594.2	594.2	529.1	341.9	297.1	329.7	476.2	557.6	561.6
47.5°	508.7	496.5	415.1	227.9	170.9	215.7	378.5	464.0	476.2
50°	439.6	423.3	341.9	166.9	109.9	154.7	313.4	398.9	411.1
52.5°	378.5	366.3	284.9	130.2	77.3	118.0	264.5	345.9	358.2
55°	317.5	309.3	236.1	101.7	61.0	89.5	211.6	280.8	289.0
57.5°	260.5	248.3	191.3	85.5	48.8	73.3	175.0	232.0	240.1
60°	219.8	207.6	154.7	69.2	40.7	57.0	142.4	191.3	199.4
62.5°	183.1	170.9	126.2	57.0	32.6	48.8	114.0	154.7	162.8
65°	146.5	138.4	97.7	44.8	28.5	36.6	89.5	122.1	130.2
67.5°	118.0	109.9	77.3	36.6	24.4	28.5	69.2	97.7	105.8
70°	89.5	81.4	57.0	28.5	20.3	24.4	52.9	73.3	81.4
72.5°	65.1	61.0	44.8	24.4	16.3	20.3	36.6	52.9	61.0
75°	48.8	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	20.3	28.5	28.5
80°	24.4	20.3	16.3	8.1	8.1	8.1	12.2	20.3	20.3
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)