

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: P859141

Luminaire Tested: **LD4C55D010 EU4559050 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859141
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 4LBMDSWGPH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

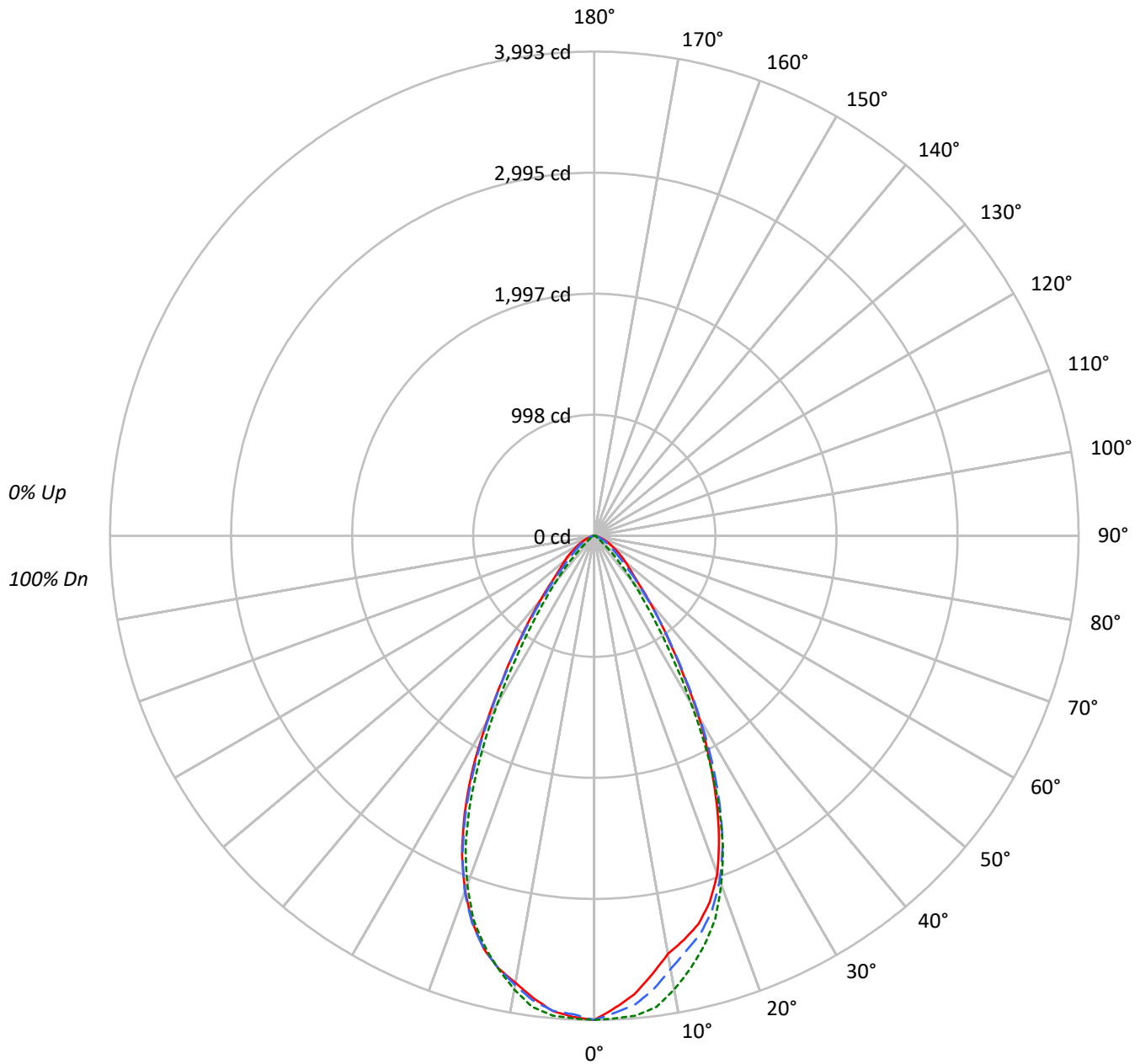
Lumens per Lamp: N/A
Luminaire Lumens: 3635.0 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	490554	490554	490554
5°	468096	489764	485201
10°	436583	473883	466959
15°	421575	445117	448246
20°	387795	399888	407144
25°	321412	327268	343154
30°	244508	226137	251516
35°	165559	135489	167404
40°	112743	77637	109279
45°	78218	39109	73927
50°	63645	15921	59517
55°	51512	9917	46886
60°	40910	7568	37126
65°	32267	6279	28692
70°	24354	5532	22163
75°	17563	4414	16091
80°	13088	4386	10895
85°	8739	4370	8739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.1	10.1
10°-20°	964.6	26.5
20°-30°	1106.7	30.4
30°-40°	672.3	18.5
40°-50°	288.1	7.9
50°-60°	138.2	3.8
60°-70°	67.2	1.8
70°-80°	24.9	0.7
80°-90°	5.8	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°	2438.4	67.1
0°-40°	3110.8	85.6
0°-60°	3537.1	97.3
0°-90°	3635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3635.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3993	3993	3993	3993	3993	
5°	3796	3879	3971	3931	3934	353
15°	3315	3392	3500	3521	3524	923
25°	2371	2448	2414	2507	2532	1076
35°	1104	1119	903	1092	1116	707
45°	450	401	225	361	426	366
55°	240	179	46	160	219	217
65°	111	74	22	68	99	113
75°	37	25	9	22	34	41
85°	6	6	3	3	6	8
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°	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0
2.5°	3897.4	3940.6	3937.5	3974.5	3983.7	3974.5	3949.8	3974.5	3971.4
5°	3795.7	3845.0	3878.9	3940.6	3971.4	3965.2	3931.3	3937.5	3934.4
7.5°	3647.7	3709.3	3767.9	3860.4	3919.0	3915.9	3866.6	3857.3	3845.0
10°	3499.7	3558.2	3626.1	3721.7	3798.7	3811.1	3761.7	3749.4	3743.2
12.5°	3413.3	3459.6	3505.8	3589.1	3656.9	3681.6	3653.8	3656.9	3653.8
15°	3314.6	3360.9	3391.7	3453.4	3499.7	3533.6	3521.2	3539.7	3524.3
17.5°	3166.6	3222.1	3234.5	3280.7	3314.6	3336.2	3348.6	3367.1	3342.4
20°	2966.2	3009.4	3024.8	3043.3	3058.7	3086.5	3123.5	3142.0	3114.2
22.5°	2685.6	2768.9	2765.8	2756.6	2772.0	2781.2	2839.8	2870.6	2849.1
25°	2371.1	2457.5	2448.2	2411.2	2414.3	2432.8	2506.8	2546.9	2531.5
27.5°	2041.2	2121.4	2099.8	2028.9	2010.4	2038.1	2133.7	2180.0	2170.7
30°	1723.6	1776.0	1742.1	1615.7	1594.1	1628.0	1751.4	1797.6	1773.0
32.5°	1381.4	1421.4	1406.0	1251.9	1214.9	1248.8	1393.7	1436.9	1409.1
35°	1103.9	1140.9	1119.3	937.4	903.4	940.4	1091.5	1140.9	1116.2
37.5°	884.9	912.7	884.9	690.7	659.8	696.8	841.8	906.5	875.7
40°	703.0	724.6	687.6	508.8	484.1	502.6	638.3	703.0	681.4
42.5°	555.0	570.4	530.3	373.1	345.3	370.0	481.0	539.6	527.3
45°	450.2	450.2	400.8	259.0	225.1	249.8	360.8	422.4	425.5
47.5°	385.4	376.2	314.5	172.7	129.5	163.4	286.8	351.5	360.8
50°	333.0	320.7	259.0	126.4	83.3	117.2	237.4	302.2	311.4
52.5°	286.8	277.5	215.8	98.7	58.6	89.4	200.4	262.1	271.3
55°	240.5	234.3	178.8	77.1	46.3	67.8	160.3	212.8	218.9
57.5°	197.3	188.1	144.9	64.8	37.0	55.5	132.6	175.8	181.9
60°	166.5	157.3	117.2	52.4	30.8	43.2	107.9	144.9	151.1
62.5°	138.8	129.5	95.6	43.2	24.7	37.0	86.3	117.2	123.3
65°	111.0	104.8	74.0	33.9	21.6	27.8	67.8	92.5	98.7
67.5°	89.4	83.3	58.6	27.8	18.5	21.6	52.4	74.0	80.2
70°	67.8	61.7	43.2	21.6	15.4	18.5	40.1	55.5	61.7
72.5°	49.3	46.3	33.9	18.5	12.3	15.4	27.8	40.1	46.3
75°	37.0	33.9	24.7	12.3	9.3	12.3	21.6	30.8	33.9
77.5°	24.7	24.7	18.5	9.3	9.3	9.3	15.4	21.6	21.6
80°	18.5	15.4	12.3	6.2	6.2	6.2	9.3	15.4	15.4
82.5°	12.3	9.3	9.3	6.2	6.2	6.2	6.2	9.3	9.3
85°	6.2	6.2	6.2	3.1	3.1	3.1	3.1	6.2	6.2
87.5°	3.1	3.1	3.1	3.1	3.1	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)