

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: P859318

Luminaire Tested: **LD4C65D010 EU4659027 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859318
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: LD4C65D010 EU4659027 4LBMDSWGPH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

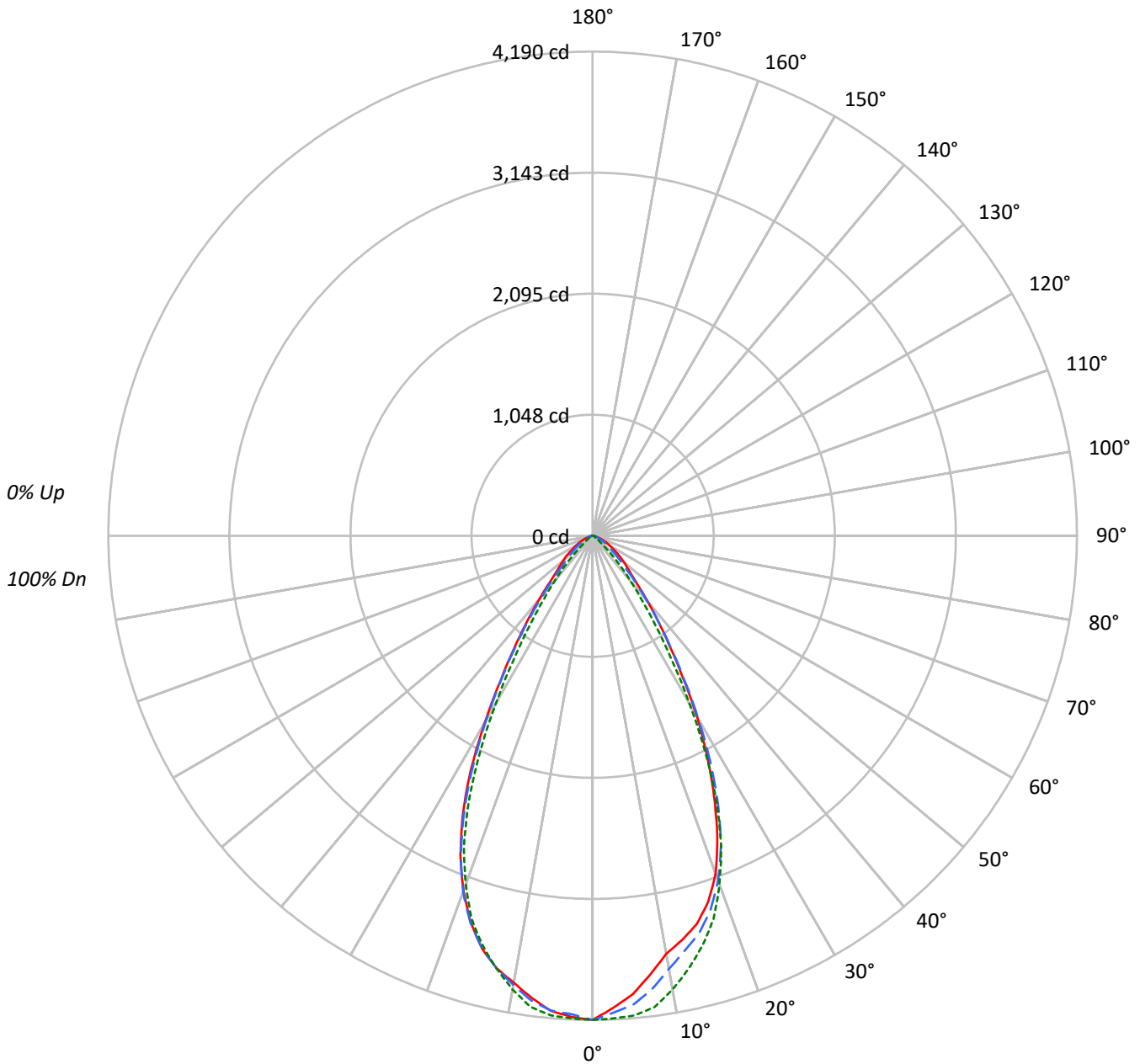
Lumens per Lamp: N/A
Luminaire Lumens: 3814.0 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (A_{in}): 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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	514707	514707	514707
5°	491145	513886	509101
10°	458077	497223	489963
15°	442345	467032	470326
20°	406896	419577	427199
25°	337244	343385	360044
30°	256552	237273	263900
35°	173703	142163	175652
40°	118292	81454	114667
45°	82058	41038	77575
50°	66779	16704	62460
55°	54040	10388	49199
60°	42925	7961	38945
65°	33866	6570	30087
70°	25575	5819	23240
75°	18417	4604	16898
80°	13725	4599	11461
85°	9162	4511	9162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.2	10.1
10°-20°	1012.1	26.5
20°-30°	1161.2	30.4
30°-40°	705.4	18.5
40°-50°	302.3	7.9
50°-60°	145.0	3.8
60°-70°	70.5	1.8
70°-80°	26.2	0.7
80°-90°	6.0	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°	2558.5	67.1
0°-40°	3263.9	85.6
0°-60°	3711.3	97.3
0°-90°	3814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3814.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4190	4190	4190	4190	4190	
5°	3983	4070	4167	4125	4128	370
15°	3478	3559	3672	3695	3698	968
25°	2488	2569	2533	2630	2656	1129
35°	1158	1174	948	1145	1171	742
45°	472	421	236	378	446	384
55°	252	188	48	168	230	228
65°	116	78	23	71	104	118
75°	39	26	10	23	36	43
85°	6	6	3	3	6	9
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°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4089.3	4134.6	4131.4	4170.2	4179.9	4170.2	4144.3	4170.2	4167.0
5°	3982.6	4034.3	4069.9	4134.6	4167.0	4160.5	4124.9	4131.4	4128.2
7.5°	3827.3	3892.0	3953.5	4050.5	4112.0	4108.7	4057.0	4047.3	4034.3
10°	3672.0	3733.5	3804.6	3904.9	3985.8	3998.7	3947.0	3934.0	3927.6
12.5°	3581.4	3629.9	3678.5	3765.8	3837.0	3862.9	3833.7	3837.0	3833.7
15°	3477.9	3526.4	3558.8	3623.5	3672.0	3707.6	3694.6	3714.0	3697.9
17.5°	3322.6	3380.8	3393.8	3442.3	3477.9	3500.5	3513.5	3532.9	3507.0
20°	3112.3	3157.6	3173.8	3193.2	3209.3	3238.5	3277.3	3296.7	3267.6
22.5°	2817.9	2905.2	2902.0	2892.3	2908.5	2918.2	2979.6	3012.0	2989.4
25°	2487.9	2578.5	2568.8	2530.0	2533.2	2552.6	2630.2	2672.3	2656.1
27.5°	2141.7	2225.8	2203.2	2128.8	2109.4	2138.5	2238.8	2287.3	2277.6
30°	1808.5	1863.5	1827.9	1695.3	1672.6	1708.2	1837.6	1886.1	1860.3
32.5°	1449.4	1491.4	1475.3	1313.5	1274.7	1310.3	1462.3	1507.6	1478.5
35°	1158.2	1197.0	1174.4	983.5	947.9	986.7	1145.3	1197.0	1171.2
37.5°	928.5	957.6	928.5	724.7	692.3	731.2	883.2	951.2	918.8
40°	737.6	760.3	721.5	533.8	507.9	527.3	669.7	737.6	715.0
42.5°	582.3	598.5	556.5	391.5	362.3	388.2	504.7	566.2	553.2
45°	472.3	472.3	420.6	271.8	236.2	262.1	378.5	443.2	446.5
47.5°	404.4	394.7	330.0	181.2	135.9	171.5	300.9	368.8	378.5
50°	349.4	336.5	271.8	132.6	87.4	122.9	249.1	317.1	326.8
52.5°	300.9	291.2	226.5	103.5	61.5	93.8	210.3	275.0	284.7
55°	252.3	245.9	187.6	80.9	48.5	71.2	168.2	223.2	229.7
57.5°	207.1	197.3	152.1	67.9	38.8	58.2	139.1	184.4	190.9
60°	174.7	165.0	122.9	55.0	32.4	45.3	113.2	152.1	158.5
62.5°	145.6	135.9	100.3	45.3	25.9	38.8	90.6	122.9	129.4
65°	116.5	110.0	77.6	35.6	22.6	29.1	71.2	97.1	103.5
67.5°	93.8	87.4	61.5	29.1	19.4	22.6	55.0	77.6	84.1
70°	71.2	64.7	45.3	22.6	16.2	19.4	42.1	58.2	64.7
72.5°	51.8	48.5	35.6	19.4	12.9	16.2	29.1	42.1	48.5
75°	38.8	35.6	25.9	12.9	9.7	12.9	22.6	32.4	35.6
77.5°	25.9	25.9	19.4	9.7	9.7	9.7	16.2	22.6	22.6
80°	19.4	16.2	12.9	6.5	6.5	6.5	9.7	16.2	16.2
82.5°	12.9	9.7	9.7	6.5	6.5	6.5	6.5	9.7	9.7
85°	6.5	6.5	6.5	3.2	3.2	3.2	3.2	6.5	6.5
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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)