

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: P859450

Luminaire Tested: **LD4C70D010 EU4709030 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859450
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: LD4C70D010 EU4709030 4LBMDSWGPH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

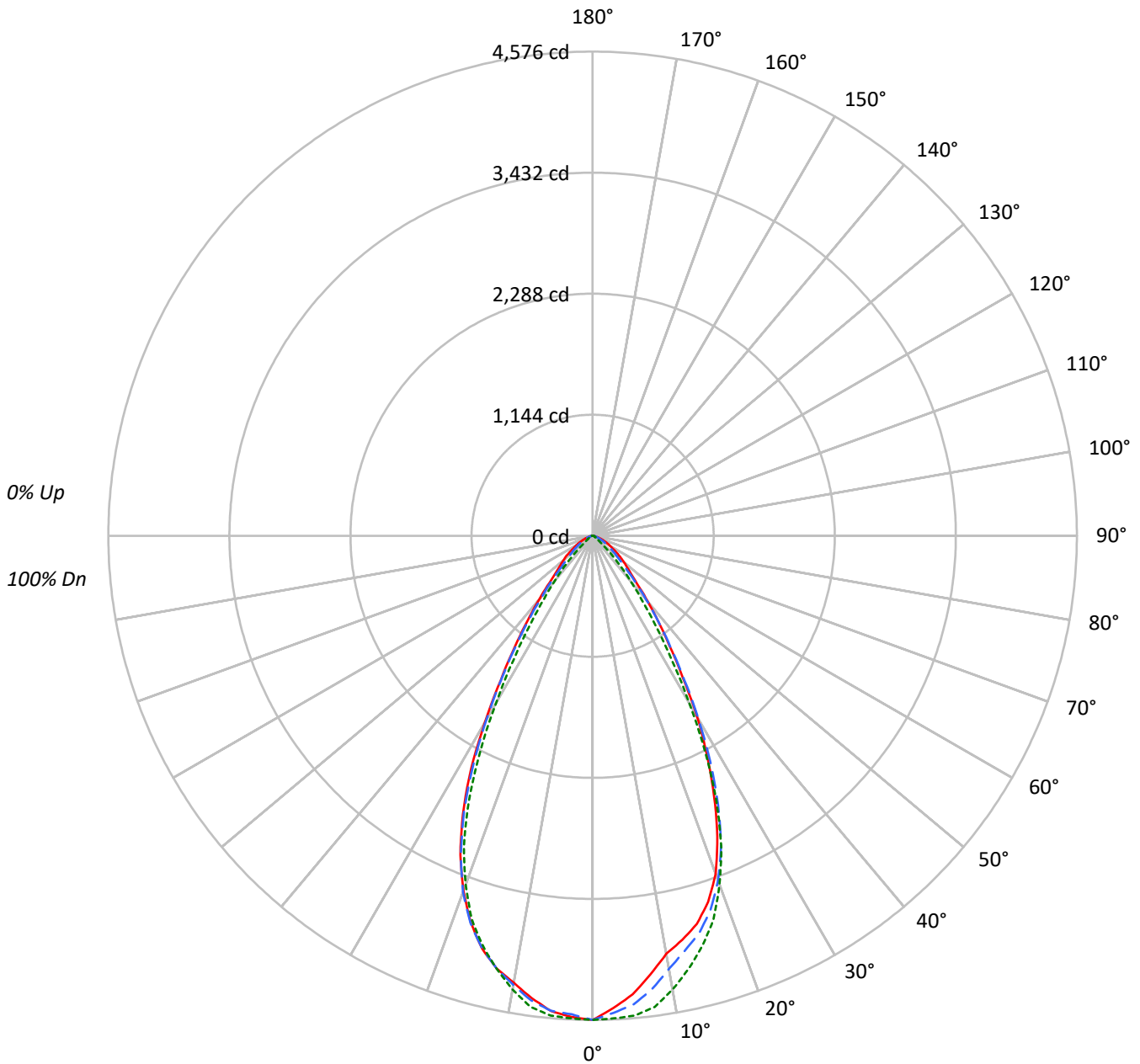
Lumens per Lamp: N/A
Luminaire Lumens: 4166.0 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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°	562214	562214	562214
5°	536466	561316	556075
10°	500355	543118	535184
15°	483172	510135	513735
20°	444444	458302	466630
25°	368367	375077	393282
30°	280228	259176	288243
35°	189735	155286	191850
40°	129213	88975	125252
45°	89633	44825	84734
50°	72953	18233	68213
55°	59030	11352	53740
60°	46881	8673	42556
65°	36977	7180	32878
70°	27910	6358	25395
75°	20126	5031	18465
80°	14999	5023	12522
85°	10008	4934	10008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.8	10.1
10°-20°	1105.5	26.5
20°-30°	1268.4	30.4
30°-40°	770.5	18.5
40°-50°	330.2	7.9
50°-60°	158.4	3.8
60°-70°	77.0	1.8
70°-80°	28.6	0.7
80°-90°	6.6	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°	2794.6	67.1
0°-40°	3565.2	85.6
0°-60°	4053.8	97.3
0°-90°	4166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4166.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4576	4576	4576	4576	4576	
5°	4350	4446	4552	4506	4509	404
15°	3799	3887	4011	4036	4039	1058
25°	2718	2806	2767	2873	2901	1233
35°	1265	1283	1035	1251	1279	811
45°	516	459	258	414	488	419
55°	276	205	53	184	251	249
65°	127	85	25	78	113	129
75°	42	28	11	25	39	46
85°	7	7	4	4	7	10
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°	4576.3	4576.3	4576.3	4576.3	4576.3	4576.3	4576.3	4576.3	4576.3
2.5°	4466.7	4516.2	4512.7	4555.1	4565.7	4555.1	4526.8	4555.1	4551.6
5°	4350.1	4406.7	4445.5	4516.2	4551.6	4544.5	4505.6	4512.7	4509.1
7.5°	4180.5	4251.2	4318.3	4424.3	4491.5	4487.9	4431.4	4420.8	4406.7
10°	4010.9	4078.0	4155.8	4265.3	4353.7	4367.8	4311.3	4297.1	4290.1
12.5°	3911.9	3964.9	4017.9	4113.4	4191.1	4219.4	4187.6	4191.1	4187.6
15°	3798.9	3851.9	3887.2	3957.9	4010.9	4049.8	4035.6	4056.8	4039.2
17.5°	3629.2	3692.8	3707.0	3760.0	3798.9	3823.6	3837.7	3858.9	3830.7
20°	3399.5	3449.0	3466.7	3487.9	3505.5	3537.3	3579.8	3601.0	3569.2
22.5°	3078.0	3173.4	3169.8	3159.2	3176.9	3187.5	3254.6	3290.0	3265.2
25°	2717.5	2816.5	2805.8	2763.4	2767.0	2788.2	2873.0	2918.9	2901.3
27.5°	2339.4	2431.3	2406.5	2325.3	2304.0	2335.9	2445.4	2498.4	2487.8
30°	1975.4	2035.5	1996.6	1851.7	1827.0	1865.9	2007.2	2060.2	2031.9
32.5°	1583.1	1629.1	1611.4	1434.7	1392.3	1431.2	1597.3	1646.8	1615.0
35°	1265.1	1307.5	1282.8	1074.3	1035.4	1077.8	1251.0	1307.5	1279.2
37.5°	1014.2	1046.0	1014.2	791.6	756.2	798.6	964.7	1038.9	1003.6
40°	805.7	830.4	788.0	583.1	554.8	576.0	731.5	805.7	781.0
42.5°	636.1	653.8	607.8	427.6	395.8	424.1	551.3	618.4	604.3
45°	515.9	515.9	459.4	296.8	258.0	286.2	413.5	484.1	487.7
47.5°	441.7	431.1	360.4	197.9	148.4	187.3	328.6	402.9	413.5
50°	381.7	367.5	296.8	144.9	95.4	134.3	272.1	346.3	356.9
52.5°	328.6	318.0	247.4	113.1	67.1	102.5	229.7	300.4	311.0
55°	275.6	268.6	205.0	88.3	53.0	77.7	183.8	243.8	250.9
57.5°	226.2	215.6	166.1	74.2	42.4	63.6	152.0	201.4	208.5
60°	190.8	180.2	134.3	60.1	35.3	49.5	123.7	166.1	173.2
62.5°	159.0	148.4	109.5	49.5	28.3	42.4	98.9	134.3	141.4
65°	127.2	120.1	84.8	38.9	24.7	31.8	77.7	106.0	113.1
67.5°	102.5	95.4	67.1	31.8	21.2	24.7	60.1	84.8	91.9
70°	77.7	70.7	49.5	24.7	17.7	21.2	45.9	63.6	70.7
72.5°	56.5	53.0	38.9	21.2	14.1	17.7	31.8	45.9	53.0
75°	42.4	38.9	28.3	14.1	10.6	14.1	24.7	35.3	38.9
77.5°	28.3	28.3	21.2	10.6	10.6	10.6	17.7	24.7	24.7
80°	21.2	17.7	14.1	7.1	7.1	7.1	10.6	17.7	17.7
82.5°	14.1	10.6	10.6	7.1	7.1	7.1	7.1	10.6	10.6
85°	7.1	7.1	7.1	3.5	3.5	3.5	3.5	7.1	7.1
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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)