

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: P859620

Luminaire Tested: **LD4C08D010 EU4089027 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859620
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: LD4C08D010 EU4089027 4LBMDSWWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

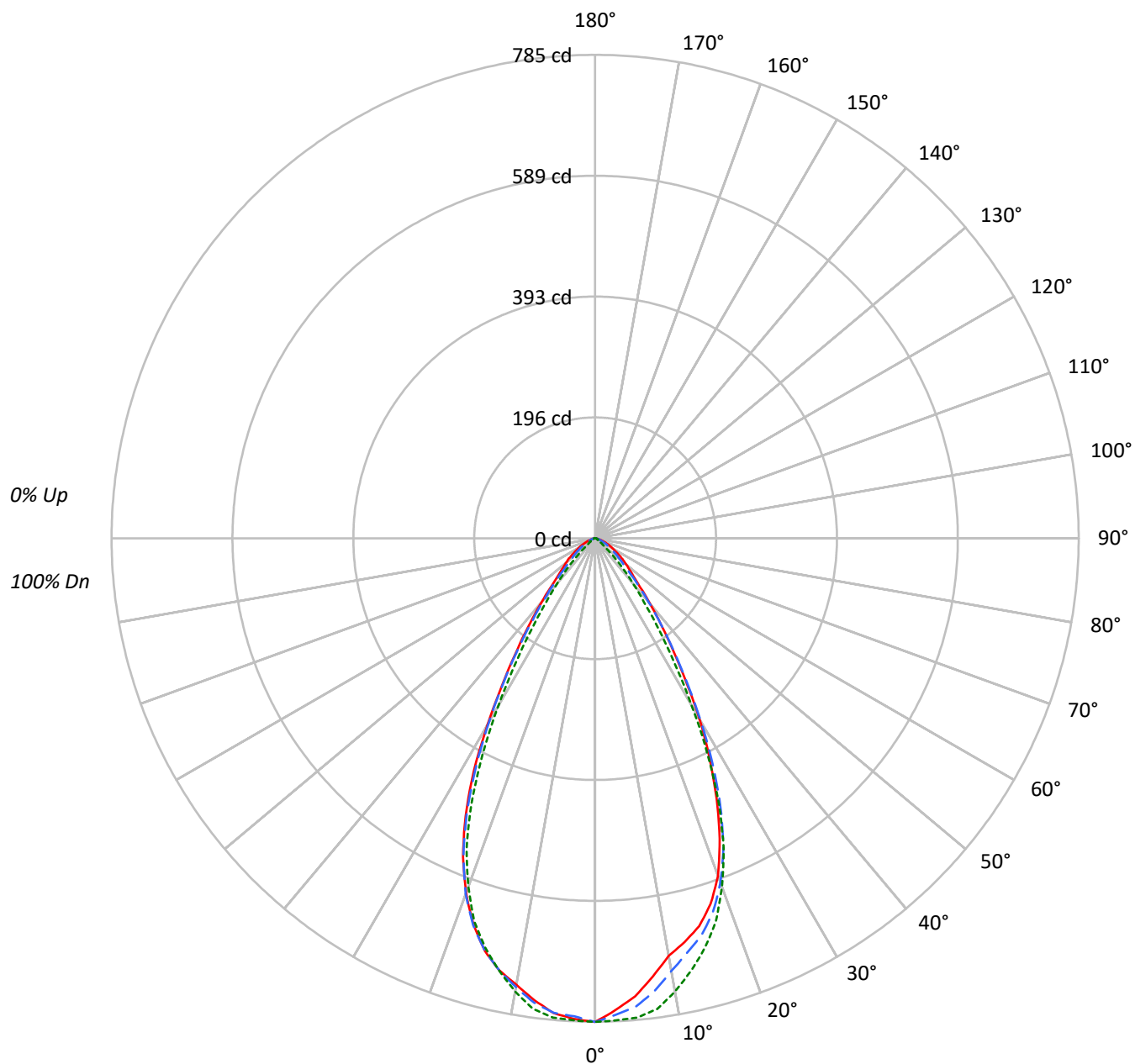
Lumens per Lamp: N/A
Luminaire Lumens: 715.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	93	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	91	82	75	71	89	81	75	71	79	74	70		77	73	69		76
6	86	76	70	66	84	76	70	65	74	69	65		73	68	64		71
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67
8	77	67	61	57	76	67	61	57	66	60	56		65	60	56		64
9	74	63	57	53	72	63	57	53	62	57	53		61	56	53		60
10	70	60	54	50	69	60	54	50	59	53	50		58	53	50		57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	96489	96489	96489
5°	92073	96340	95439
10°	85877	93212	91852
15°	82926	87556	88166
20°	76286	78652	80090
25°	63222	64375	67492
30°	48090	44487	49466
35°	32560	26651	32935
40°	22180	15268	21490
45°	15376	7697	14542
50°	12519	3134	11716
55°	10131	1949	9232
60°	8059	1499	7297
65°	6337	1221	5640
70°	4777	1078	4346
75°	3465	854	3180
80°	2547	849	2122
85°	1692	846	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	10.1
10°-20°	189.7	26.5
20°-30°	217.7	30.4
30°-40°	132.2	18.5
40°-50°	56.7	7.9
50°-60°	27.2	3.8
60°-70°	13.2	1.8
70°-80°	4.9	0.7
80°-90°	1.1	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°	479.6	67.1
0°-40°	611.9	85.6
0°-60°	695.7	97.3
0°-90°	715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	785	785	785	785	785	
5°	747	763	781	773	774	69
15°	652	667	688	693	693	182
25°	466	482	475	493	498	212
35°	217	220	178	215	220	139
45°	88	79	44	71	84	72
55°	47	35	9	32	43	43
65°	22	15	4	13	19	22
75°	7	5	2	4	7	8
85°	1	1	1	1	1	2
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°	785.4	785.4	785.4	785.4	785.4	785.4	785.4	785.4	785.4
2.5°	766.6	775.1	774.5	781.8	783.6	781.8	776.9	781.8	781.2
5°	746.6	756.3	763.0	775.1	781.2	780.0	773.3	774.5	773.9
7.5°	717.5	729.6	741.1	759.3	770.9	770.3	760.6	758.7	756.3
10°	688.4	699.9	713.2	732.0	747.2	749.6	739.9	737.5	736.3
12.5°	671.4	680.5	689.6	706.0	719.3	724.2	718.7	719.3	718.7
15°	652.0	661.1	667.1	679.3	688.4	695.0	692.6	696.3	693.2
17.5°	622.9	633.8	636.2	645.3	652.0	656.2	658.7	662.3	657.4
20°	583.5	591.9	595.0	598.6	601.6	607.1	614.4	618.0	612.6
22.5°	528.3	544.6	544.0	542.2	545.2	547.1	558.6	564.7	560.4
25°	466.4	483.4	481.6	474.3	474.9	478.5	493.1	501.0	497.9
27.5°	401.5	417.3	413.0	399.1	395.4	400.9	419.7	428.8	427.0
30°	339.0	349.3	342.7	317.8	313.6	320.2	344.5	353.6	348.7
32.5°	271.7	279.6	276.6	246.2	239.0	245.6	274.1	282.6	277.2
35°	217.1	224.4	220.2	184.4	177.7	185.0	214.7	224.4	219.6
37.5°	174.1	179.5	174.1	135.9	129.8	137.1	165.6	178.3	172.2
40°	138.3	142.5	135.2	100.1	95.2	98.9	125.5	138.3	134.0
42.5°	109.2	112.2	104.3	73.4	67.9	72.8	94.6	106.1	103.7
45°	88.5	88.5	78.8	50.9	44.3	49.1	71.0	83.1	83.7
47.5°	75.8	74.0	61.9	34.0	25.5	32.1	56.4	69.1	71.0
50°	65.5	63.1	50.9	24.9	16.4	23.0	46.7	59.4	61.3
52.5°	56.4	54.6	42.5	19.4	11.5	17.6	39.4	51.6	53.4
55°	47.3	46.1	35.2	15.2	9.1	13.3	31.5	41.8	43.1
57.5°	38.8	37.0	28.5	12.7	7.3	10.9	26.1	34.6	35.8
60°	32.8	30.9	23.0	10.3	6.1	8.5	21.2	28.5	29.7
62.5°	27.3	25.5	18.8	8.5	4.9	7.3	17.0	23.0	24.3
65°	21.8	20.6	14.6	6.7	4.2	5.5	13.3	18.2	19.4
67.5°	17.6	16.4	11.5	5.5	3.6	4.2	10.3	14.6	15.8
70°	13.3	12.1	8.5	4.2	3.0	3.6	7.9	10.9	12.1
72.5°	9.7	9.1	6.7	3.6	2.4	3.0	5.5	7.9	9.1
75°	7.3	6.7	4.9	2.4	1.8	2.4	4.2	6.1	6.7
77.5°	4.9	4.9	3.6	1.8	1.8	1.8	3.0	4.2	4.2
80°	3.6	3.0	2.4	1.2	1.2	1.2	1.8	3.0	3.0
82.5°	2.4	1.8	1.8	1.2	1.2	1.2	1.2	1.8	1.8
85°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)