

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: P857328

Luminaire Tested: **LD4C25D010 EU4259027 4LBMDSWGPH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P857328  
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: LD4C25D010 EU4259027 4LBMDSWGPH  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

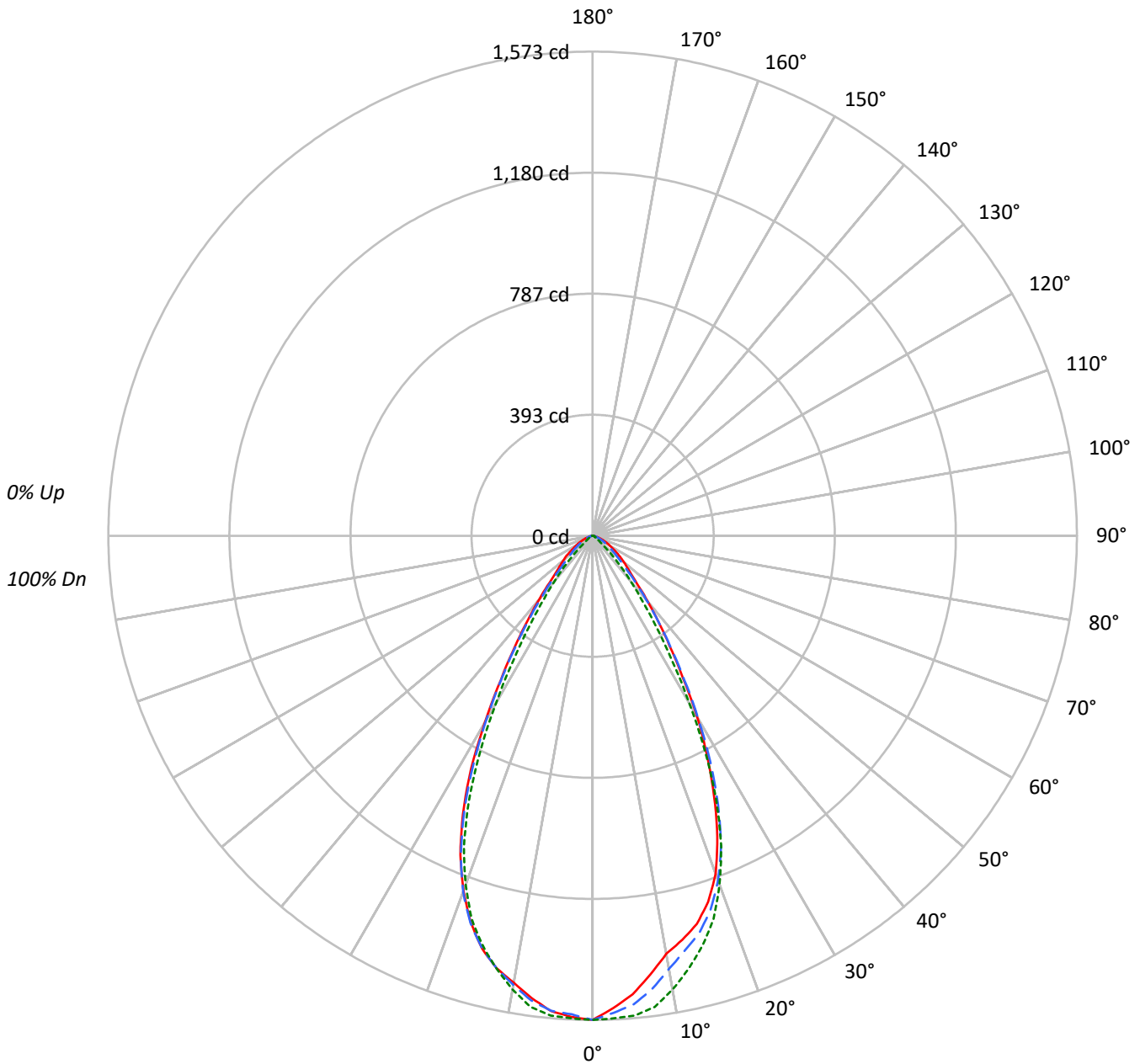
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1432.0 lumens  
Efficiency: N/A  
Efficacy: 45.5 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): 31.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	193249	193249	193249
5°	184405	192938	191150
10°	171991	186686	183954
15°	166081	175353	176587
20°	152767	157539	160389
25°	126621	128925	135188
30°	96322	89087	99088
35°	65225	53377	65945
40°	44424	30583	43044
45°	30804	15411	29119
50°	25076	6269	23451
55°	20284	3898	18463
60°	16118	2973	14620
65°	12703	2471	11308
70°	9591	2191	8729
75°	6930	1709	6361
80°	5165	1698	4316
85°	3383	1692	3383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.6	10.1
10°-20°	380.0	26.5
20°-30°	436.0	30.4
30°-40°	264.9	18.5
40°-50°	113.5	7.9
50°-60°	54.5	3.8
60°-70°	26.5	1.8
70°-80°	9.8	0.7
80°-90°	2.2	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°	960.6	67.1
0°-40°	1225.5	85.6
0°-60°	1393.4	97.3
0°-90°	1432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1432.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1573	1573	1573	1573	1573	
5°	1495	1528	1564	1549	1550	139
15°	1306	1336	1379	1387	1388	364
25°	934	964	951	988	997	424
35°	435	441	356	430	440	279
45°	177	158	89	142	168	144
55°	95	70	18	63	86	86
65°	44	29	8	27	39	44
75°	15	10	4	8	13	16
85°	2	2	1	1	2	3
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°	1573.0	1573.0	1573.0	1573.0	1573.0	1573.0	1573.0	1573.0	1573.0
2.5°	1535.4	1552.4	1551.2	1565.7	1569.4	1565.7	1556.0	1565.7	1564.5
5°	1495.3	1514.7	1528.1	1552.4	1564.5	1562.1	1548.7	1551.2	1550.0
7.5°	1437.0	1461.3	1484.4	1520.8	1543.9	1542.7	1523.2	1519.6	1514.7
10°	1378.7	1401.8	1428.5	1466.1	1496.5	1501.4	1481.9	1477.1	1474.6
12.5°	1344.7	1362.9	1381.1	1413.9	1440.6	1450.3	1439.4	1440.6	1439.4
15°	1305.8	1324.0	1336.2	1360.5	1378.7	1392.0	1387.2	1394.5	1388.4
17.5°	1247.5	1269.4	1274.2	1292.4	1305.8	1314.3	1319.2	1326.4	1316.7
20°	1168.5	1185.5	1191.6	1198.9	1205.0	1215.9	1230.5	1237.8	1226.8
22.5°	1058.0	1090.8	1089.6	1085.9	1092.0	1095.7	1118.7	1130.9	1122.4
25°	934.1	968.1	964.5	949.9	951.1	958.4	987.5	1003.3	997.3
27.5°	804.1	835.7	827.2	799.3	792.0	802.9	840.6	858.8	855.1
30°	679.0	699.7	686.3	636.5	628.0	641.4	689.9	708.2	698.5
32.5°	544.2	560.0	553.9	493.2	478.6	492.0	549.0	566.0	555.1
35°	434.9	449.4	440.9	369.3	355.9	370.5	430.0	449.4	439.7
37.5°	348.6	359.5	348.6	272.1	259.9	274.5	331.6	357.1	345.0
40°	277.0	285.5	270.9	200.4	190.7	198.0	251.4	277.0	268.4
42.5°	218.6	224.7	208.9	147.0	136.0	145.8	189.5	212.6	207.7
45°	177.3	177.3	157.9	102.0	88.7	98.4	142.1	166.4	167.6
47.5°	151.8	148.2	123.9	68.0	51.0	64.4	113.0	138.5	142.1
50°	131.2	126.3	102.0	49.8	32.8	46.2	93.5	119.0	122.7
52.5°	113.0	109.3	85.0	38.9	23.1	35.2	79.0	103.2	106.9
55°	94.7	92.3	70.5	30.4	18.2	26.7	63.2	83.8	86.2
57.5°	77.7	74.1	57.1	25.5	14.6	21.9	52.2	69.2	71.7
60°	65.6	61.9	46.2	20.6	12.1	17.0	42.5	57.1	59.5
62.5°	54.7	51.0	37.7	17.0	9.7	14.6	34.0	46.2	48.6
65°	43.7	41.3	29.2	13.4	8.5	10.9	26.7	36.4	38.9
67.5°	35.2	32.8	23.1	10.9	7.3	8.5	20.6	29.2	31.6
70°	26.7	24.3	17.0	8.5	6.1	7.3	15.8	21.9	24.3
72.5°	19.4	18.2	13.4	7.3	4.9	6.1	10.9	15.8	18.2
75°	14.6	13.4	9.7	4.9	3.6	4.9	8.5	12.1	13.4
77.5°	9.7	9.7	7.3	3.6	3.6	3.6	6.1	8.5	8.5
80°	7.3	6.1	4.9	2.4	2.4	2.4	3.6	6.1	6.1
82.5°	4.9	3.6	3.6	2.4	2.4	2.4	2.4	3.6	3.6
85°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	2.4	2.4
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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)