

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: P859386

Luminaire Tested: **LD4C65D010 EU4659040 4LBMDSWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859386  
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 EU4659040 4LBMDSWWMH  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

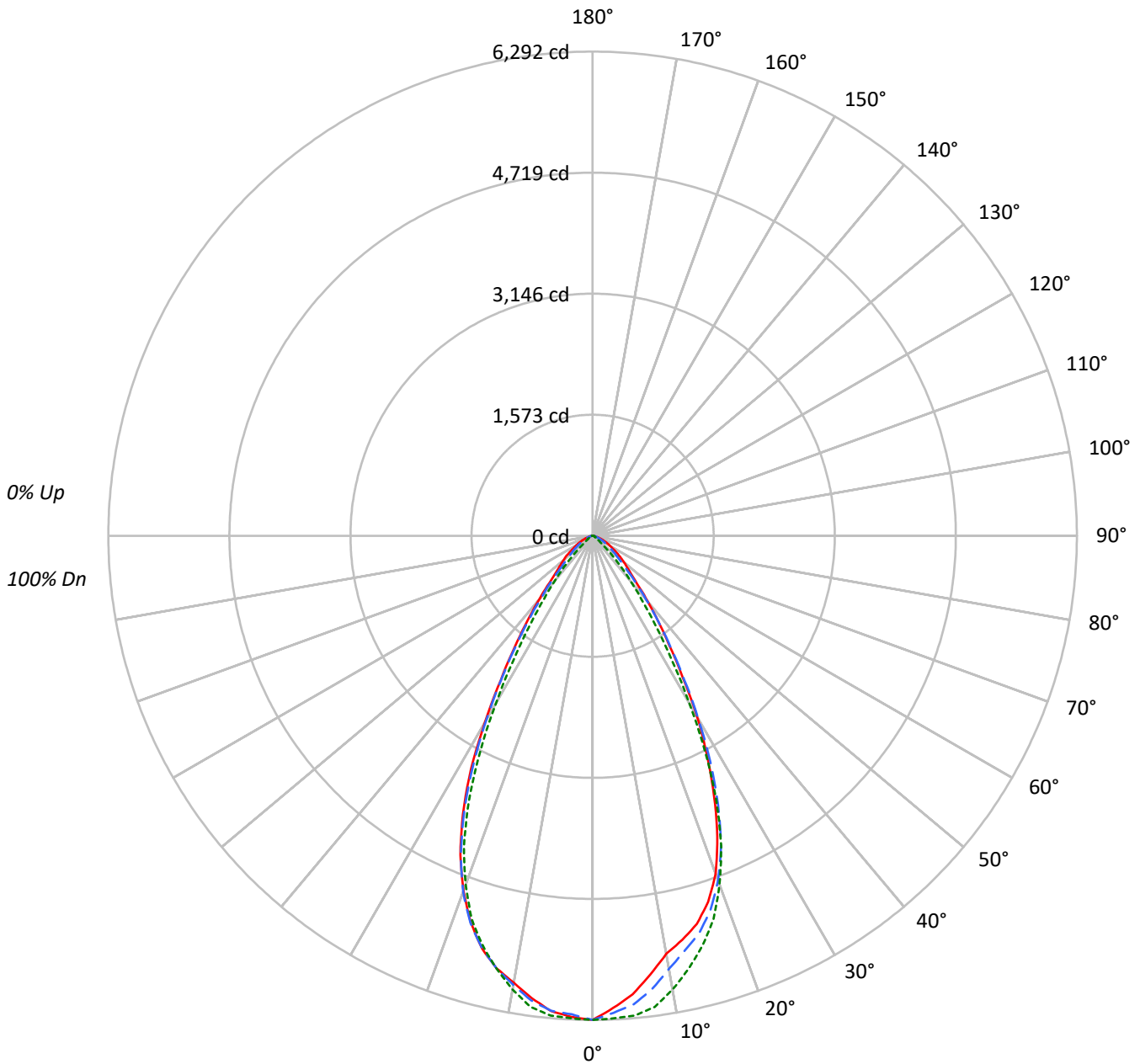
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5728.0 lumens  
Efficiency: N/A  
Efficacy: 79.1 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<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
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67			67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55			55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51			51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48			48

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	773006	773006	773006
5°	737618	771766	764576
10°	687952	746746	735843
15°	664325	701400	706347
20°	611082	630144	641583
25°	506483	515701	540738
30°	385303	356350	396326
35°	260869	213506	263793
40°	177662	122333	172209
45°	123252	61626	116493
50°	100284	25076	93786
55°	81177	15614	73895
60°	64474	11941	58503
65°	50843	9884	45203
70°	38398	8729	34914
75°	27673	6930	25347
80°	20659	6863	17192
85°	13673	6907	13673



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.5	10.1
10°-20°	1520.0	26.5
20°-30°	1744.0	30.4
30°-40°	1059.4	18.5
40°-50°	454.0	7.9
50°-60°	217.8	3.8
60°-70°	105.9	1.8
70°-80°	39.3	0.7
80°-90°	9.1	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°	3842.5	67.1
0°-40°	4901.9	85.6
0°-60°	5573.8	97.3
0°-90°	5728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5728.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6292	6292	6292	6292	6292	
5°	5981	6112	6258	6195	6200	556
15°	5223	5345	5515	5549	5554	1454
25°	3736	3858	3804	3950	3989	1695
35°	1739	1764	1424	1720	1759	1115
45°	709	632	355	568	670	576
55°	379	282	73	253	345	342
65°	175	117	34	107	156	177
75°	58	39	15	34	53	64
85°	10	10	5	5	10	13
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°	6292.1	6292.1	6292.1	6292.1	6292.1	6292.1	6292.1	6292.1	6292.1
2.5°	6141.5	6209.5	6204.7	6263.0	6277.5	6263.0	6224.1	6263.0	6258.1
5°	5981.2	6058.9	6112.3	6209.5	6258.1	6248.4	6194.9	6204.7	6199.8
7.5°	5747.9	5845.1	5937.4	6083.2	6175.5	6170.7	6092.9	6078.3	6058.9
10°	5514.7	5607.0	5713.9	5864.6	5986.0	6005.5	5927.7	5908.3	5898.6
12.5°	5378.7	5451.6	5524.4	5655.6	5762.5	5801.4	5757.7	5762.5	5757.7
15°	5223.2	5296.1	5344.7	5441.8	5514.7	5568.2	5548.7	5577.9	5553.6
17.5°	4990.0	5077.4	5096.9	5169.7	5223.2	5257.2	5276.6	5305.8	5266.9
20°	4674.1	4742.2	4766.5	4795.6	4819.9	4863.6	4921.9	4951.1	4907.4
22.5°	4232.0	4363.2	4358.3	4343.8	4368.0	4382.6	4474.9	4523.5	4489.5
25°	3736.4	3872.5	3857.9	3799.6	3804.4	3833.6	3950.2	4013.4	3989.1
27.5°	3216.5	3342.8	3308.8	3197.1	3167.9	3211.7	3362.3	3435.2	3420.6
30°	2716.1	2798.7	2745.2	2546.0	2512.0	2565.4	2759.8	2832.7	2793.8
32.5°	2176.7	2239.9	2215.6	1972.7	1914.4	1967.8	2196.2	2264.2	2220.5
35°	1739.4	1797.7	1763.7	1477.1	1423.6	1481.9	1720.0	1797.7	1758.9
37.5°	1394.5	1438.2	1394.5	1088.4	1039.8	1098.1	1326.4	1428.5	1379.9
40°	1107.8	1141.8	1083.5	801.7	762.8	792.0	1005.8	1107.8	1073.8
42.5°	874.6	898.9	835.7	587.9	544.2	583.1	758.0	850.3	830.9
45°	709.4	709.4	631.6	408.1	354.7	393.6	568.5	665.7	670.5
47.5°	607.3	592.8	495.6	272.1	204.1	257.5	451.9	553.9	568.5
50°	524.7	505.3	408.1	199.2	131.2	184.6	374.1	476.2	490.7
52.5°	451.9	437.3	340.1	155.5	92.3	140.9	315.8	413.0	427.6
55°	379.0	369.3	281.8	121.5	72.9	106.9	252.7	335.3	345.0
57.5°	311.0	296.4	228.4	102.0	58.3	87.5	208.9	277.0	286.7
60°	262.4	247.8	184.6	82.6	48.6	68.0	170.1	228.4	238.1
62.5°	218.6	204.1	150.6	68.0	38.9	58.3	136.0	184.6	194.4
65°	174.9	165.2	116.6	53.4	34.0	43.7	106.9	145.8	155.5
67.5°	140.9	131.2	92.3	43.7	29.2	34.0	82.6	116.6	126.3
70°	106.9	97.2	68.0	34.0	24.3	29.2	63.2	87.5	97.2
72.5°	77.7	72.9	53.4	29.2	19.4	24.3	43.7	63.2	72.9
75°	58.3	53.4	38.9	19.4	14.6	19.4	34.0	48.6	53.4
77.5°	38.9	38.9	29.2	14.6	14.6	14.6	24.3	34.0	34.0
80°	29.2	24.3	19.4	9.7	9.7	9.7	14.6	24.3	24.3
82.5°	19.4	14.6	14.6	9.7	9.7	9.7	9.7	14.6	14.6
85°	9.7	9.7	9.7	4.9	4.9	4.9	4.9	9.7	9.7
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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)