

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: P858121

Luminaire Tested: **LD4C45D010 EU4459030 4LBMDSWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P858121  
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: LD4C45D010 EU4459030 4LBMDSWMW  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

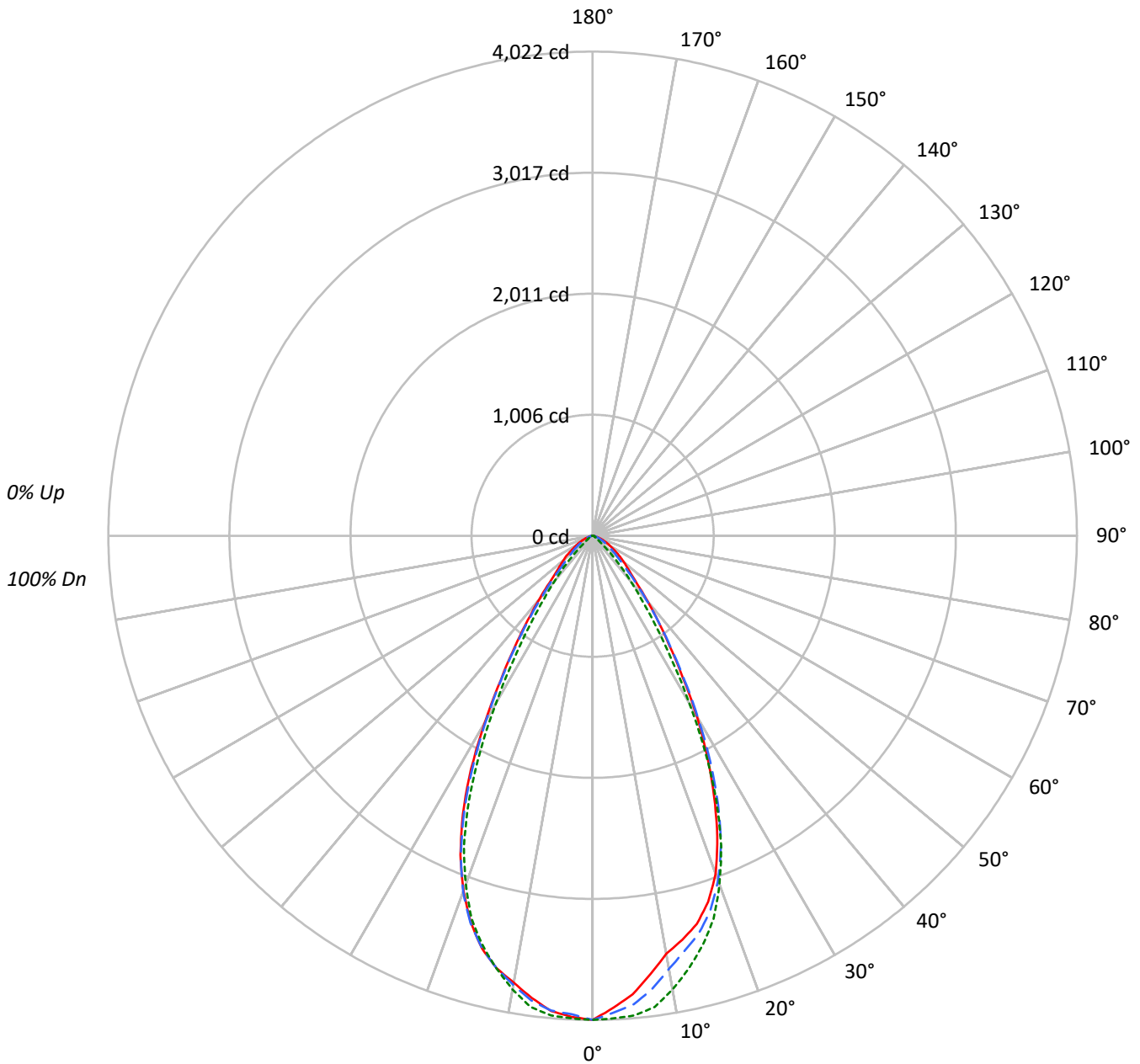
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3661.0 lumens  
Efficiency: N/A  
Efficacy: 73.8 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): 49.6  
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°	494068	494068	494068
5°	471438	493266	488679
10°	439702	477276	470303
15°	424602	448297	451451
20°	390567	402751	410060
25°	323716	329613	345608
30°	246253	227755	253303
35°	166744	136464	168603
40°	113545	78198	110065
45°	78774	39387	74465
50°	64104	16016	59956
55°	51876	9981	47229
60°	41205	7641	37397
65°	32500	6308	28895
70°	24533	5568	22306
75°	17705	4414	16234
80°	13159	4386	10966
85°	8739	4370	8739



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.7	10.1
10°-20°	971.5	26.5
20°-30°	1114.6	30.4
30°-40°	677.1	18.5
40°-50°	290.2	7.9
50°-60°	139.2	3.8
60°-70°	67.7	1.8
70°-80°	25.1	0.7
80°-90°	5.8	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°	2455.9	67.1
0°-40°	3133.0	85.6
0°-60°	3562.4	97.3
0°-90°	3661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3661.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4022	4022	4022	4022	4022	
5°	3823	3907	4000	3959	3963	355
15°	3338	3416	3525	3546	3550	929
25°	2388	2466	2432	2525	2550	1083
35°	1112	1127	910	1099	1124	713
45°	453	404	227	363	429	368
55°	242	180	47	162	220	219
65°	112	74	22	68	99	113
75°	37	25	9	22	34	41
85°	6	6	3	3	6	8
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°	4021.6	4021.6	4021.6	4021.6	4021.6	4021.6	4021.6	4021.6	4021.6
2.5°	3925.3	3968.8	3965.7	4002.9	4012.2	4002.9	3978.1	4002.9	3999.8
5°	3822.8	3872.5	3906.7	3968.8	3999.8	3993.6	3959.4	3965.7	3962.6
7.5°	3673.7	3735.9	3794.9	3888.0	3947.0	3943.9	3894.2	3884.9	3872.5
10°	3524.7	3583.7	3652.0	3748.3	3825.9	3838.3	3788.6	3776.2	3770.0
12.5°	3437.7	3484.3	3530.9	3614.7	3683.1	3707.9	3680.0	3683.1	3680.0
15°	3338.4	3384.9	3416.0	3478.1	3524.7	3558.8	3546.4	3565.1	3549.5
17.5°	3189.3	3245.2	3257.6	3304.2	3338.4	3360.1	3372.5	3391.1	3366.3
20°	2987.4	3030.9	3046.4	3065.1	3080.6	3108.6	3145.8	3164.5	3136.5
22.5°	2704.8	2788.7	2785.6	2776.3	2791.8	2801.1	2860.1	2891.2	2869.4
25°	2388.1	2475.0	2465.7	2428.5	2431.6	2450.2	2524.7	2565.1	2549.6
27.5°	2055.8	2136.5	2114.8	2043.4	2024.8	2052.7	2149.0	2195.6	2186.2
30°	1735.9	1788.7	1754.6	1627.3	1605.5	1639.7	1763.9	1810.5	1785.6
32.5°	1391.2	1431.6	1416.1	1260.8	1223.5	1257.7	1403.7	1447.1	1419.2
35°	1111.8	1149.0	1127.3	944.1	909.9	947.2	1099.3	1149.0	1124.2
37.5°	891.3	919.2	891.3	695.6	664.6	701.8	847.8	913.0	881.9
40°	708.0	729.8	692.5	512.4	487.6	506.2	642.8	708.0	686.3
42.5°	559.0	574.5	534.1	375.8	347.8	372.7	484.4	543.5	531.0
45°	453.4	453.4	403.7	260.9	226.7	251.5	363.3	425.4	428.6
47.5°	388.2	378.9	316.8	173.9	130.4	164.6	288.8	354.0	363.3
50°	335.4	323.0	260.9	127.3	83.8	118.0	239.1	304.3	313.7
52.5°	288.8	279.5	217.4	99.4	59.0	90.1	201.9	264.0	273.3
55°	242.2	236.0	180.1	77.6	46.6	68.3	161.5	214.3	220.5
57.5°	198.7	189.4	146.0	65.2	37.3	55.9	133.5	177.0	183.2
60°	167.7	158.4	118.0	52.8	31.1	43.5	108.7	146.0	152.2
62.5°	139.7	130.4	96.3	43.5	24.8	37.3	87.0	118.0	124.2
65°	111.8	105.6	74.5	34.2	21.7	27.9	68.3	93.2	99.4
67.5°	90.1	83.8	59.0	27.9	18.6	21.7	52.8	74.5	80.7
70°	68.3	62.1	43.5	21.7	15.5	18.6	40.4	55.9	62.1
72.5°	49.7	46.6	34.2	18.6	12.4	15.5	27.9	40.4	46.6
75°	37.3	34.2	24.8	12.4	9.3	12.4	21.7	31.1	34.2
77.5°	24.8	24.8	18.6	9.3	9.3	9.3	15.5	21.7	21.7
80°	18.6	15.5	12.4	6.2	6.2	6.2	9.3	15.5	15.5
82.5°	12.4	9.3	9.3	6.2	6.2	6.2	6.2	9.3	9.3
85°	6.2	6.2	6.2	3.1	3.1	3.1	3.1	6.2	6.2
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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)