

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: P799771

Luminaire Tested: **LD6C45D010 EU6459050 6LBMDSWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C45D010 EU6459050 6LBMDSWWMH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

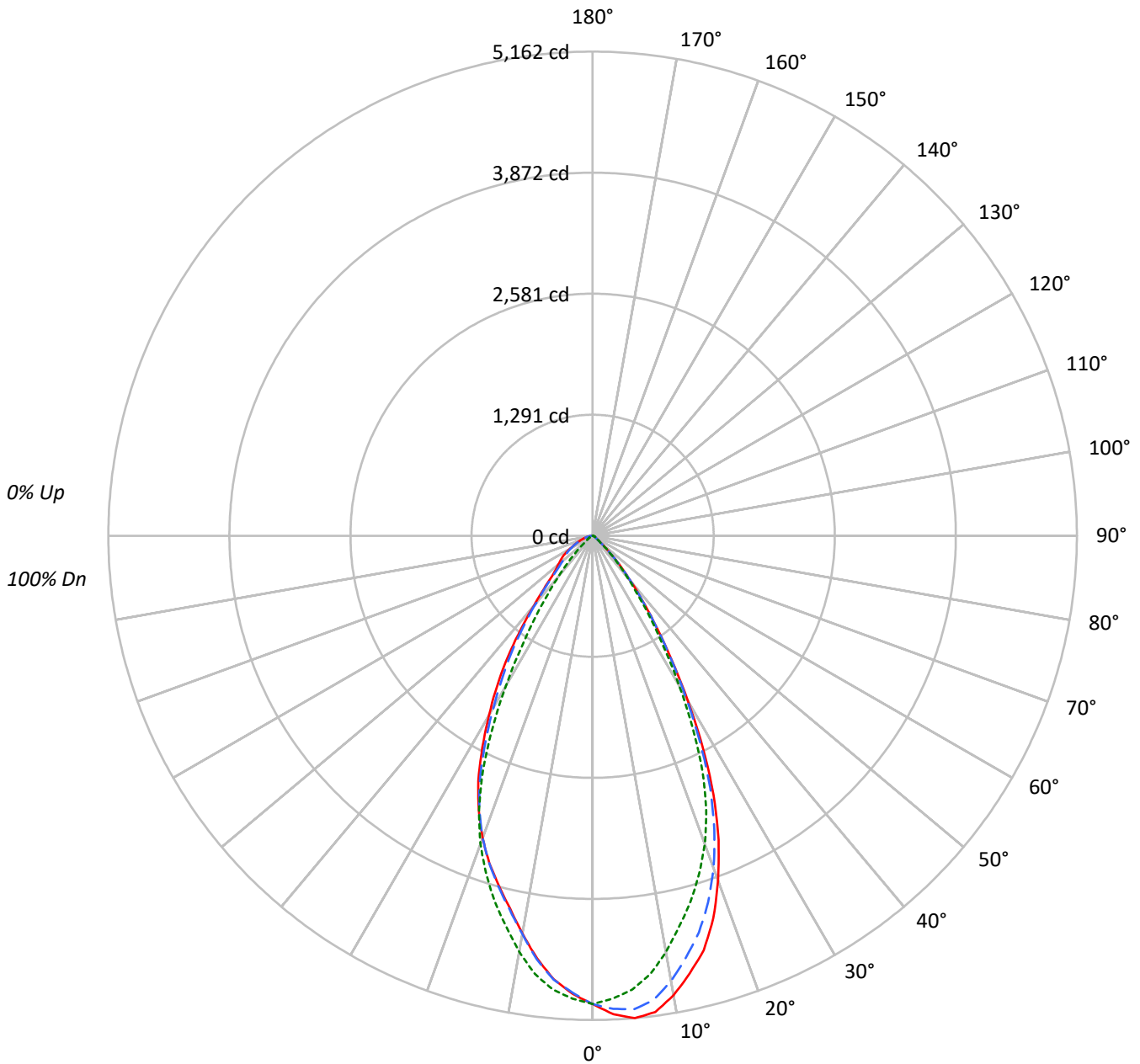
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4298.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' 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									
RC	80									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																			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49																			

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

	0°	90°	180°
0°	273668	273668	273668
5°	284074	267246	261203
10°	276810	250674	239647
15°	259610	229054	219150
20°	227911	203910	200019
25°	184329	167520	174427
30°	128146	116695	139597
35°	78983	71487	105357
40°	44691	40068	69967
45°	21708	20700	47749
50°	8264	8264	40587
55°	4530	5352	37466
60°	3311	4254	30699
65°	2789	3632	25139
70°	2420	3109	20709
75°	2288	3198	17792
80°	1357	2715	12912
85°	1384	5409	12202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.0	10.6
10°-20°	1148.6	26.7
20°-30°	1293.0	30.1
30°-40°	800.7	18.6
40°-50°	318.9	7.4
50°-60°	145.2	3.4
60°-70°	83.5	1.9
70°-80°	39.6	0.9
80°-90°	11.6	0.3
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°	2898.7	67.4
0°-40°	3699.4	86.1
0°-60°	4163.4	96.9
0°-90°	4298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4298.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4992	4992	4992	4992	4992	
5°	5162	5067	4856	4751	4747	486
15°	4574	4376	4036	3872	3861	1266
25°	3047	2966	2770	2838	2884	1370
35°	1180	1174	1068	1488	1574	758
45°	280	280	267	582	616	237
55°	47	45	56	345	392	47
65°	22	19	28	192	194	21
75°	11	11	15	82	84	11
85°	2	2	9	19	19	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°	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1
2.5°	5106.2	5058.8	5048.1	5007.1	4938.2	4899.5	4875.8	4858.5	4888.7
5°	5162.2	5110.5	5067.4	4983.5	4856.4	4785.3	4750.9	4722.9	4746.6
7.5°	5121.3	5048.1	4989.9	4873.6	4712.1	4602.3	4554.9	4522.6	4544.1
10°	4972.7	4884.4	4817.6	4679.8	4503.2	4371.8	4313.7	4283.5	4305.1
12.5°	4778.9	4705.6	4604.4	4453.7	4264.2	4126.3	4083.2	4059.6	4068.2
15°	4574.3	4488.1	4376.1	4225.4	4035.9	3898.0	3872.2	3857.1	3861.4
17.5°	4277.1	4193.1	4096.2	3949.7	3775.3	3663.3	3663.3	3652.5	3659.0
20°	3906.7	3861.4	3766.7	3643.9	3495.3	3394.1	3426.4	3415.6	3428.6
22.5°	3506.1	3471.6	3389.8	3288.6	3163.7	3084.0	3155.0	3152.9	3170.1
25°	3047.4	3021.5	2965.5	2879.4	2769.5	2720.0	2838.5	2838.5	2883.7
27.5°	2541.3	2515.4	2476.7	2403.4	2313.0	2297.9	2472.3	2493.9	2543.4
30°	2024.4	2007.2	1985.6	1918.9	1843.5	1871.5	2112.7	2149.3	2205.3
32.5°	1563.5	1552.8	1546.3	1486.0	1419.2	1511.8	1787.5	1834.9	1890.9
35°	1180.2	1156.5	1173.7	1128.5	1068.2	1184.5	1488.1	1529.1	1574.3
37.5°	870.1	852.8	867.9	835.6	781.8	908.8	1195.3	1221.1	1251.2
40°	624.5	609.5	622.4	603.0	559.9	678.4	936.8	964.8	977.7
42.5°	443.6	417.8	430.7	415.6	394.1	510.4	736.5	762.4	766.7
45°	280.0	271.4	280.0	271.4	267.0	379.0	581.5	605.2	615.9
47.5°	170.1	159.4	159.4	155.1	159.4	280.0	480.3	514.7	531.9
50°	96.9	92.6	90.5	88.3	96.9	219.7	415.6	454.4	475.9
52.5°	64.6	62.5	62.5	60.3	71.1	185.2	374.7	409.2	430.7
55°	47.4	45.2	45.2	45.2	56.0	159.4	344.6	372.6	392.0
57.5°	36.6	36.6	36.6	34.5	47.4	135.7	308.0	323.0	338.1
60°	30.2	28.0	28.0	28.0	38.8	116.3	264.9	271.4	280.0
62.5°	23.7	23.7	23.7	23.7	32.3	103.4	228.3	228.3	232.6
65°	21.5	19.4	19.4	19.4	28.0	90.5	191.7	189.5	193.8
67.5°	17.2	17.2	17.2	17.2	23.7	77.5	157.2	155.1	159.4
70°	15.1	15.1	15.1	15.1	19.4	64.6	127.1	124.9	129.2
72.5°	12.9	12.9	12.9	12.9	17.2	53.8	101.2	101.2	103.4
75°	10.8	10.8	10.8	10.8	15.1	40.9	81.8	81.8	84.0
77.5°	8.6	8.6	8.6	8.6	10.8	32.3	62.5	60.3	60.3
80°	4.3	6.5	6.5	6.5	8.6	23.7	45.2	40.9	40.9
82.5°	2.2	4.3	4.3	4.3	8.6	17.2	30.2	28.0	28.0
85°	2.2	2.2	2.2	6.5	8.6	12.9	19.4	19.4	19.4
87.5°	0.0	2.2	4.3	8.6	10.8	10.8	12.9	10.8	10.8
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)