

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: P799745

Luminaire Tested: **LD6C45D010 EU6459035 6LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799745
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 EU6459035 6LBMDSWMW
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

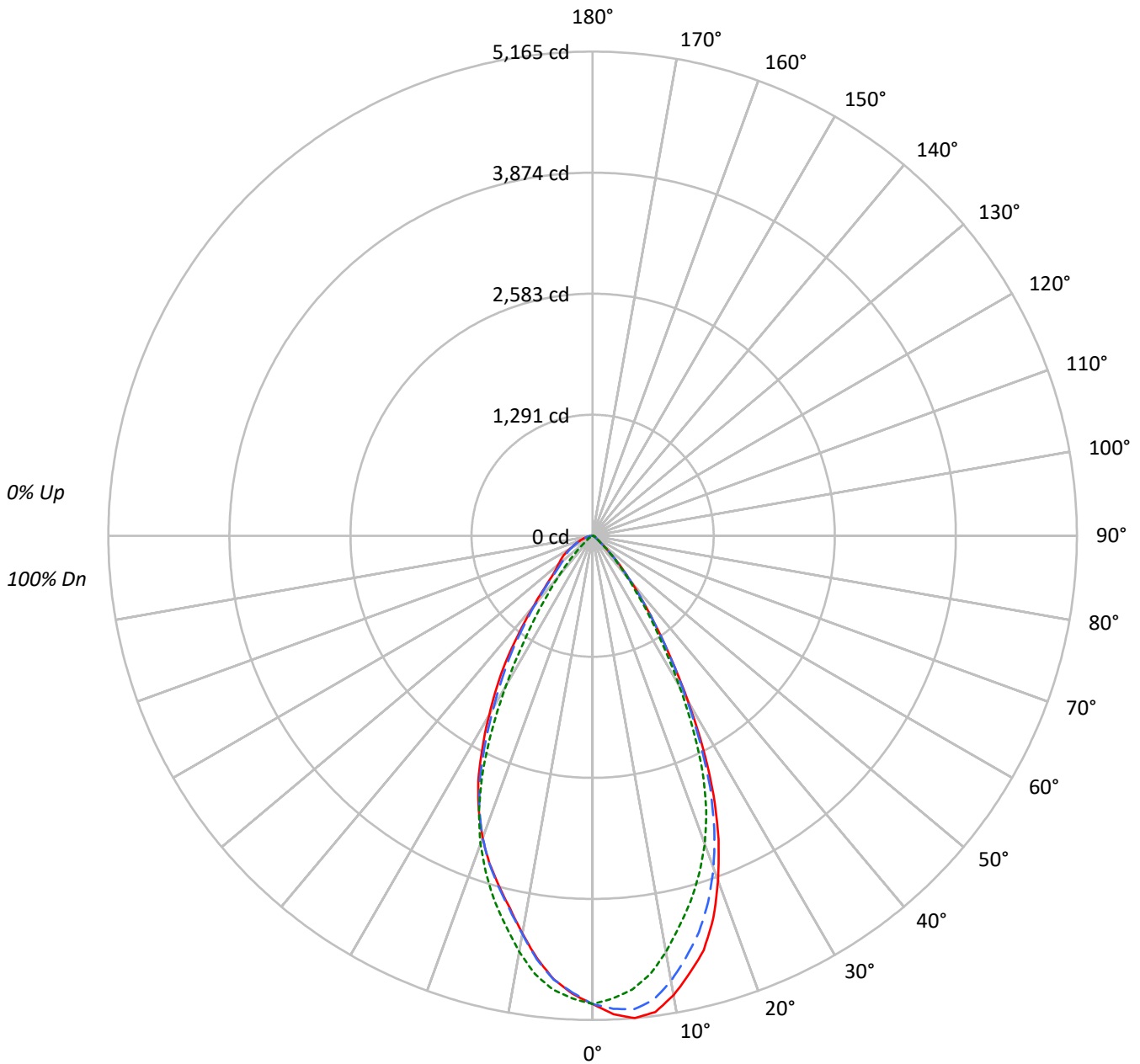
Lumens per Lamp: N/A
Luminaire Lumens: 4300.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (A_{in}): 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	110	108	105	103	104	102	100	100	98	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	87	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63	63	63	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59	59	59	59
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55	55	55	55
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52	52	52	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49	49	49	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	273794	273794	273794
5°	284206	267372	261324
10°	276938	250791	239758
15°	259729	229156	219252
20°	228016	204004	200107
25°	184414	167598	174506
30°	128203	116746	139661
35°	79016	71521	105404
40°	44712	40089	70003
45°	21715	20715	47772
50°	8273	8273	40613
55°	4530	5352	37475
60°	3311	4254	30710
65°	2789	3632	25152
70°	2420	3109	20725
75°	2288	3198	17792
80°	1357	2715	12912
85°	1384	5409	12202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.2	10.6
10°-20°	1149.2	26.7
20°-30°	1293.6	30.1
30°-40°	801.0	18.6
40°-50°	319.0	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°	2900.0	67.4
0°-40°	3701.1	86.1
0°-60°	4165.3	96.9
0°-90°	4300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4300.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4994	4994	4994	4994	4994	
5°	5165	5070	4859	4753	4749	486
15°	4576	4378	4038	3874	3863	1266
25°	3049	2967	2771	2840	2885	1370
35°	1181	1174	1069	1489	1575	759
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°	4994.4	4994.4	4994.4	4994.4	4994.4	4994.4	4994.4	4994.4	4994.4
2.5°	5108.6	5061.2	5050.4	5009.5	4940.5	4901.7	4878.0	4860.8	4891.0
5°	5164.6	5112.9	5069.8	4985.8	4858.7	4787.6	4753.1	4725.1	4748.8
7.5°	5123.7	5050.4	4992.2	4875.9	4714.3	4604.4	4557.0	4524.7	4546.2
10°	4975.0	4886.7	4819.9	4682.0	4505.3	4373.9	4315.7	4285.5	4307.1
12.5°	4781.1	4707.8	4606.6	4455.7	4266.1	4128.2	4085.1	4061.4	4070.1
15°	4576.4	4490.2	4378.2	4227.4	4037.7	3899.9	3874.0	3858.9	3863.2
17.5°	4279.1	4195.0	4098.1	3951.6	3777.0	3665.0	3665.0	3654.2	3660.7
20°	3908.5	3863.2	3768.4	3645.6	3496.9	3395.7	3428.0	3417.2	3430.1
22.5°	3507.7	3473.2	3391.4	3290.1	3165.1	3085.4	3156.5	3154.4	3171.6
25°	3048.8	3022.9	2966.9	2880.7	2770.8	2721.3	2839.8	2839.8	2885.0
27.5°	2542.4	2516.6	2477.8	2404.5	2314.1	2299.0	2473.5	2495.0	2544.6
30°	2025.3	2008.1	1986.6	1919.8	1844.3	1872.4	2113.7	2150.3	2206.3
32.5°	1564.2	1553.5	1547.0	1486.7	1419.9	1512.5	1788.3	1835.7	1891.8
35°	1180.7	1157.0	1174.3	1129.0	1068.7	1185.0	1488.8	1529.8	1575.0
37.5°	870.5	853.2	868.3	836.0	782.1	909.2	1195.8	1221.7	1251.8
40°	624.8	609.8	622.7	603.3	560.2	678.7	937.3	965.3	978.2
42.5°	443.9	418.0	430.9	415.8	394.3	510.6	736.9	762.7	767.0
45°	280.1	271.5	280.1	271.5	267.2	379.2	581.7	605.4	616.2
47.5°	170.2	159.4	159.4	155.1	159.4	280.1	480.5	515.0	532.2
50°	97.0	92.6	90.5	88.3	97.0	219.8	415.8	454.6	476.2
52.5°	64.6	62.5	62.5	60.3	71.1	185.3	374.9	409.4	430.9
55°	47.4	45.2	45.2	45.2	56.0	159.4	344.7	372.7	392.1
57.5°	36.6	36.6	36.6	34.5	47.4	135.7	308.1	323.2	338.3
60°	30.2	28.0	28.0	28.0	38.8	116.3	265.0	271.5	280.1
62.5°	23.7	23.7	23.7	23.7	32.3	103.4	228.4	228.4	232.7
65°	21.5	19.4	19.4	19.4	28.0	90.5	191.8	189.6	193.9
67.5°	17.2	17.2	17.2	17.2	23.7	77.6	157.3	155.1	159.4
70°	15.1	15.1	15.1	15.1	19.4	64.6	127.1	125.0	129.3
72.5°	12.9	12.9	12.9	12.9	17.2	53.9	101.3	101.3	103.4
75°	10.8	10.8	10.8	10.8	15.1	40.9	81.9	81.9	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)