

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: P799678

Luminaire Tested: **LD6C40D010 EU6409035 6LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C40D010 EU6409035 6LBMDDWLI
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

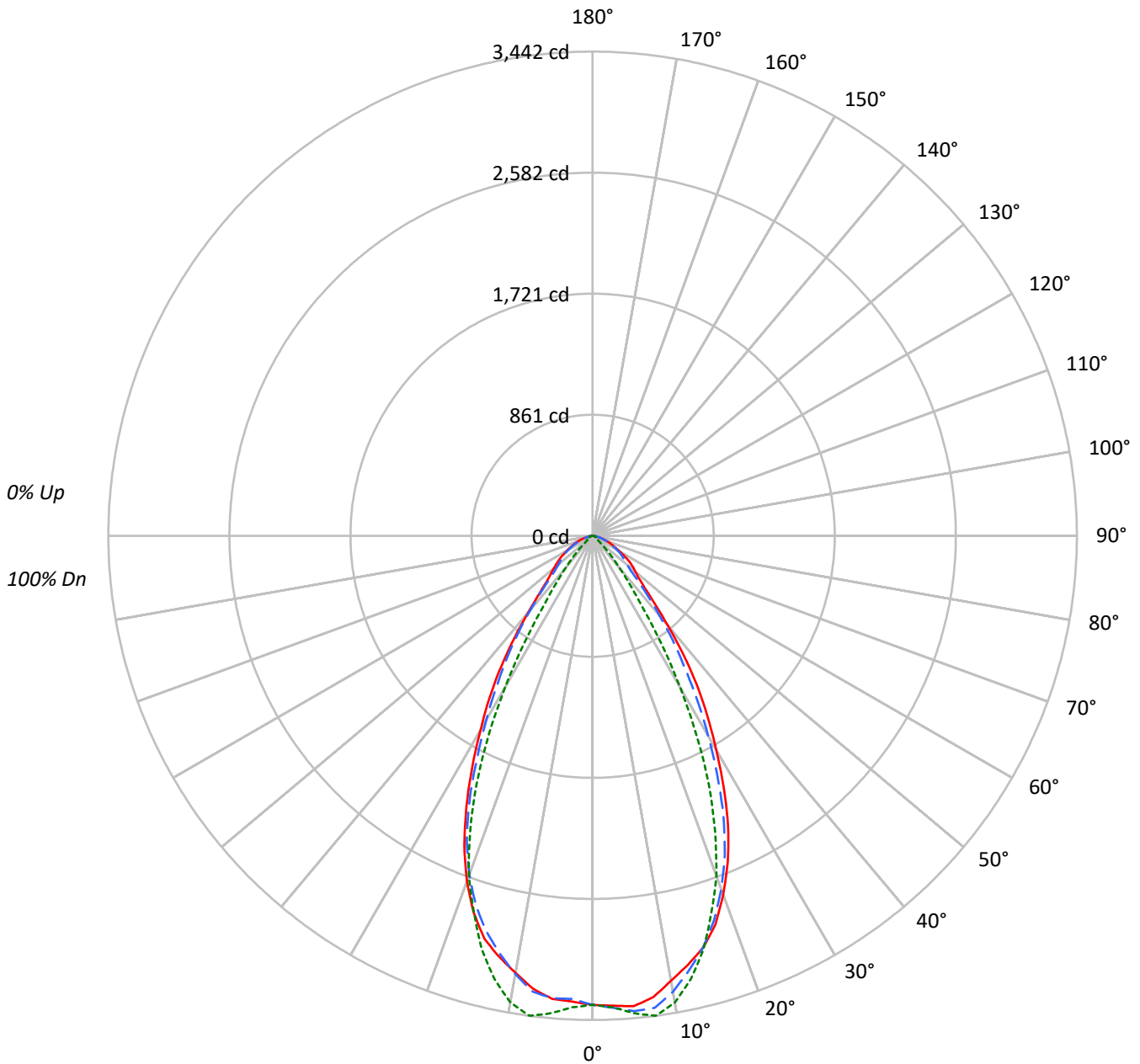
Lumens per Lamp: N/A
Luminaire Lumens: 3395.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91			91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83			83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64			64
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			59
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55			55
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51			51
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48			48
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	182814	182814	182814
5°	184723	187524	181834
10°	178743	187522	175626
15°	172033	172702	168372
20°	158330	150017	152392
25°	137790	118301	128354
30°	111131	78594	100826
35°	86157	40529	75717
40°	59118	20996	50981
45°	40500	10520	35771
50°	33705	4486	30669
55°	30317	3890	27402
60°	23989	3717	22871
65°	19808	3295	19587
70°	16044	2997	16044
75°	11861	3241	12581
80°	6977	2683	7482
85°	5346	3208	5346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	9.4
10°-20°	833.2	24.5
20°-30°	951.0	28.0
30°-40°	630.7	18.6
40°-50°	304.2	9.0
50°-60°	187.1	5.5
60°-70°	113.2	3.3
70°-80°	47.6	1.4
80°-90°	10.5	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°	2101.6	61.9
0°-40°	2732.3	80.5
0°-60°	3223.6	95.0
0°-90°	3395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3395.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3335	3335	3335	3335	3335	
5°	3357	3392	3408	3299	3304	315
15°	3031	3031	3043	2914	2967	845
25°	2278	2202	1956	2069	2122	1033
35°	1287	1135	606	1058	1131	796
45°	522	458	136	427	461	426
55°	317	258	41	258	287	279
65°	153	146	25	137	151	153
75°	56	56	15	53	59	60
85°	8	12	5	8	8	11
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°	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8
2.5°	3343.3	3348.4	3358.5	3360.2	3355.1	3322.9	3295.8	3306.0	3314.4
5°	3356.8	3367.0	3392.5	3416.2	3407.7	3353.4	3299.2	3297.5	3304.3
7.5°	3307.6	3331.4	3384.0	3443.3	3441.6	3348.4	3268.6	3248.3	3248.3
10°	3211.0	3233.0	3290.7	3370.4	3368.7	3251.7	3163.5	3153.3	3155.0
12.5°	3124.5	3134.6	3163.5	3226.2	3226.2	3110.9	3043.0	3053.2	3066.8
15°	3031.2	3037.9	3031.2	3051.5	3043.0	2948.0	2914.1	2946.3	2966.7
17.5°	2898.9	2902.2	2866.6	2839.5	2807.3	2747.9	2756.4	2803.9	2809.0
20°	2714.0	2736.0	2671.6	2602.0	2571.5	2515.5	2563.0	2615.6	2612.2
22.5°	2510.4	2535.9	2452.7	2337.4	2274.6	2252.6	2337.4	2384.9	2383.2
25°	2278.0	2296.7	2201.7	2040.6	1955.8	1952.4	2069.4	2118.6	2122.0
27.5°	2016.8	2023.6	1916.7	1706.4	1601.2	1626.7	1774.3	1842.1	1850.6
30°	1755.6	1752.2	1641.9	1380.7	1241.6	1311.2	1509.6	1584.3	1592.8
32.5°	1516.4	1506.3	1380.7	1068.6	902.4	1005.9	1267.1	1345.1	1358.7
35°	1287.4	1270.5	1134.8	790.4	605.6	759.9	1058.4	1126.3	1131.4
37.5°	1048.3	1039.8	932.9	592.0	422.4	576.7	863.4	912.6	907.5
40°	826.1	826.1	737.9	439.3	293.4	429.1	683.6	727.7	712.4
42.5°	648.0	656.4	581.8	324.0	208.6	318.9	541.1	581.8	564.8
45°	522.4	522.4	458.0	240.9	135.7	237.5	427.4	464.8	461.4
47.5°	442.7	435.9	371.5	176.4	74.6	178.1	359.6	405.4	403.7
50°	395.2	385.0	318.9	139.1	52.6	147.6	315.5	357.9	359.6
52.5°	357.9	342.6	286.7	123.8	45.8	128.9	286.7	320.6	320.6
55°	317.2	308.7	257.8	110.3	40.7	115.3	257.8	288.4	286.7
57.5°	268.0	266.3	230.7	100.1	37.3	101.8	230.7	249.3	242.6
60°	218.8	225.6	200.2	89.9	33.9	91.6	196.8	212.0	208.6
62.5°	183.2	191.7	174.7	79.7	28.8	81.4	166.2	181.5	178.1
65°	152.7	159.4	145.9	67.8	25.4	67.8	137.4	151.0	151.0
67.5°	125.5	130.6	120.4	56.0	22.1	56.0	112.0	123.8	125.5
70°	100.1	103.5	95.0	44.1	18.7	45.8	88.2	100.1	100.1
72.5°	78.0	79.7	74.6	35.6	17.0	35.6	67.8	78.0	78.0
75°	56.0	59.4	56.0	27.1	15.3	27.1	52.6	57.7	59.4
77.5°	32.2	40.7	40.7	22.1	11.9	20.4	37.3	39.0	39.0
80°	22.1	25.4	28.8	15.3	8.5	15.3	23.7	25.4	23.7
82.5°	15.3	17.0	17.0	10.2	6.8	10.2	15.3	17.0	15.3
85°	8.5	11.9	11.9	8.5	5.1	6.8	8.5	10.2	8.5
87.5°	5.1	6.8	8.5	6.8	5.1	5.1	5.1	5.1	3.4
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)