

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: P799701

Luminaire Tested: **LD6C40D010 EU6409050 6LBMDDWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799701
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 EU6409050 6LBMDDWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

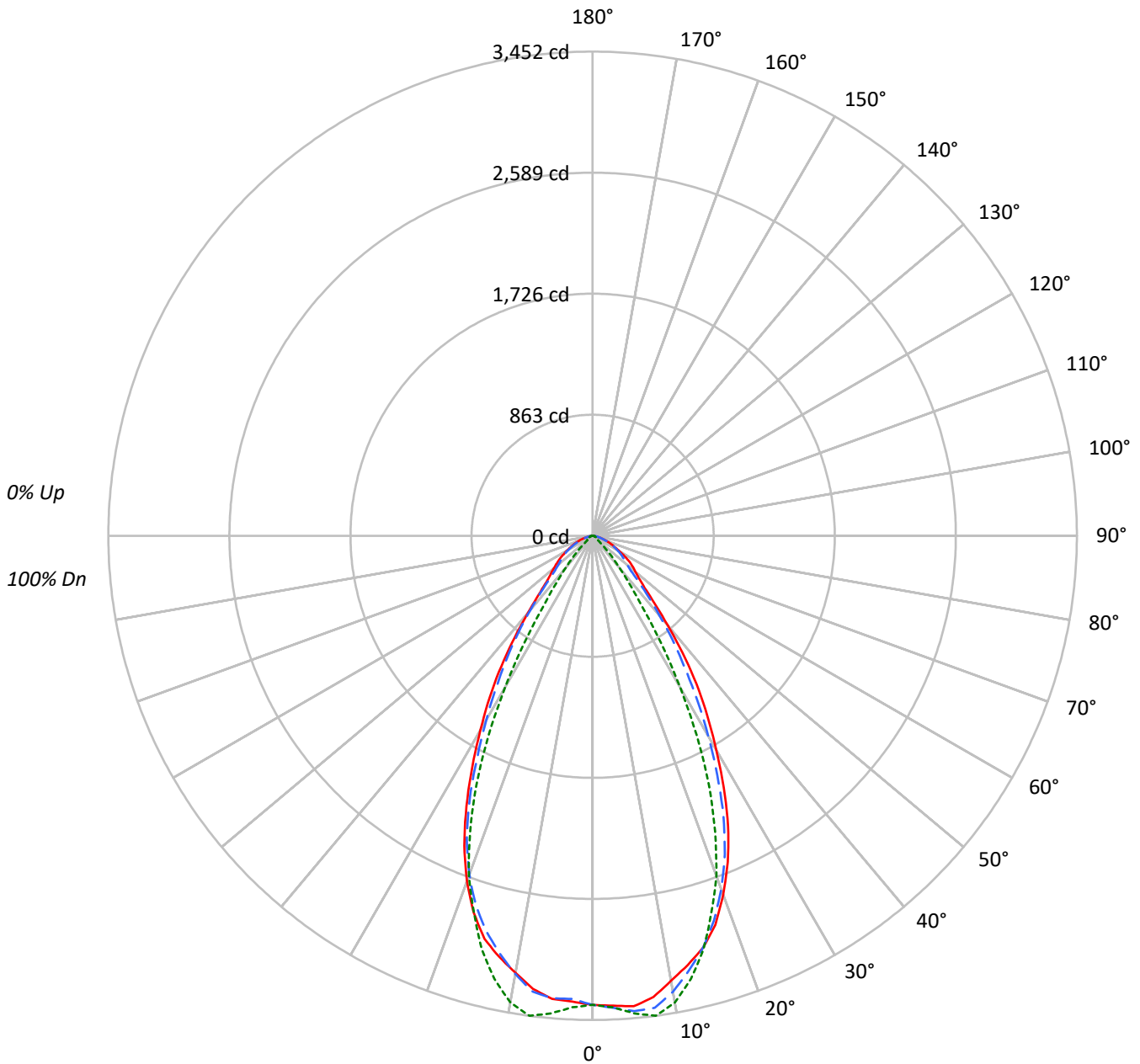
Lumens per Lamp: N/A
Luminaire Lumens: 3405.0 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	183352	183352	183352
5°	185268	188080	182368
10°	179266	188073	176143
15°	172538	173213	168866
20°	158797	150461	152841
25°	138195	118646	128729
30°	111460	78829	101123
35°	86411	40642	75938
40°	59290	21061	51132
45°	40624	10551	35872
50°	33807	4495	30762
55°	30403	3900	27478
60°	24066	3728	22948
65°	19859	3308	19639
70°	16092	2997	16092
75°	11882	3241	12603
80°	6977	2683	7514
85°	5346	3208	5346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	9.4
10°-20°	835.6	24.5
20°-30°	953.8	28.0
30°-40°	632.5	18.6
40°-50°	305.1	9.0
50°-60°	187.7	5.5
60°-70°	113.6	3.3
70°-80°	47.8	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°	2107.8	61.9
0°-40°	2740.4	80.5
0°-60°	3233.1	95.0
0°-90°	3405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3405.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3345	3345	3345	3345	3345	
5°	3367	3402	3418	3309	3314	316
15°	3040	3040	3052	2923	2975	847
25°	2285	2208	1962	2076	2128	1036
35°	1291	1138	607	1062	1135	799
45°	524	459	136	429	463	427
55°	318	259	41	259	288	280
65°	153	146	26	138	151	154
75°	56	56	15	53	60	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°	3344.6	3344.6	3344.6	3344.6	3344.6	3344.6	3344.6	3344.6	3344.6
2.5°	3353.1	3358.2	3368.4	3370.1	3365.0	3332.7	3305.5	3315.7	3324.2
5°	3366.7	3376.9	3402.5	3426.3	3417.8	3363.3	3308.9	3307.2	3314.0
7.5°	3317.4	3341.2	3393.9	3453.5	3451.8	3358.2	3278.3	3257.8	3257.8
10°	3220.4	3242.5	3300.4	3380.3	3378.6	3261.2	3172.8	3162.6	3164.3
12.5°	3133.7	3143.9	3172.8	3235.7	3235.7	3120.0	3052.0	3062.2	3075.8
15°	3040.1	3046.9	3040.1	3060.5	3052.0	2956.7	2922.7	2955.0	2975.4
17.5°	2907.4	2910.8	2875.1	2847.9	2815.5	2756.0	2764.5	2812.1	2817.2
20°	2722.0	2744.1	2679.4	2609.7	2579.1	2522.9	2570.6	2623.3	2619.9
22.5°	2517.8	2543.3	2460.0	2344.3	2281.3	2259.2	2344.3	2391.9	2390.2
25°	2284.7	2303.5	2208.2	2046.6	1961.5	1958.1	2075.5	2124.8	2128.2
27.5°	2022.8	2029.6	1922.4	1711.4	1606.0	1631.5	1779.5	1847.5	1856.0
30°	1760.8	1757.4	1646.8	1384.8	1245.3	1315.0	1514.1	1588.9	1597.5
32.5°	1520.9	1510.7	1384.8	1071.8	905.1	1008.8	1270.8	1349.1	1362.7
35°	1291.2	1274.2	1138.1	792.8	607.3	762.1	1061.6	1129.6	1134.7
37.5°	1051.4	1042.9	935.7	593.7	423.6	578.4	865.9	915.3	910.2
40°	828.5	828.5	740.0	440.6	294.3	430.4	685.6	729.8	714.5
42.5°	649.9	658.4	583.5	324.9	209.3	319.8	542.7	583.5	566.5
45°	524.0	524.0	459.3	241.6	136.1	238.2	428.7	466.1	462.7
47.5°	444.0	437.2	372.6	176.9	74.9	178.6	360.7	406.6	404.9
50°	396.4	386.2	319.8	139.5	52.7	148.0	316.4	359.0	360.7
52.5°	359.0	343.6	287.5	124.2	45.9	129.3	287.5	321.5	321.5
55°	318.1	309.6	258.6	110.6	40.8	115.7	258.6	289.2	287.5
57.5°	268.8	267.1	231.4	100.4	37.4	102.1	231.4	250.1	243.3
60°	219.5	226.3	200.7	90.2	34.0	91.9	197.3	212.7	209.3
62.5°	183.7	192.2	175.2	80.0	28.9	81.7	166.7	182.0	178.6
65°	153.1	159.9	146.3	68.0	25.5	68.0	137.8	151.4	151.4
67.5°	125.9	131.0	120.8	56.1	22.1	56.1	112.3	124.2	125.9
70°	100.4	103.8	95.3	44.2	18.7	45.9	88.5	100.4	100.4
72.5°	78.3	80.0	74.9	35.7	17.0	35.7	68.0	78.3	78.3
75°	56.1	59.5	56.1	27.2	15.3	27.2	52.7	57.8	59.5
77.5°	32.3	40.8	40.8	22.1	11.9	20.4	37.4	39.1	39.1
80°	22.1	25.5	28.9	15.3	8.5	15.3	23.8	25.5	23.8
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)