

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: P800051

Luminaire Tested: **LD6C70D010 EU6709040 6LBMDDWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P800051
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: LD6C70D010 EU6709040 6LBMDDWMW
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

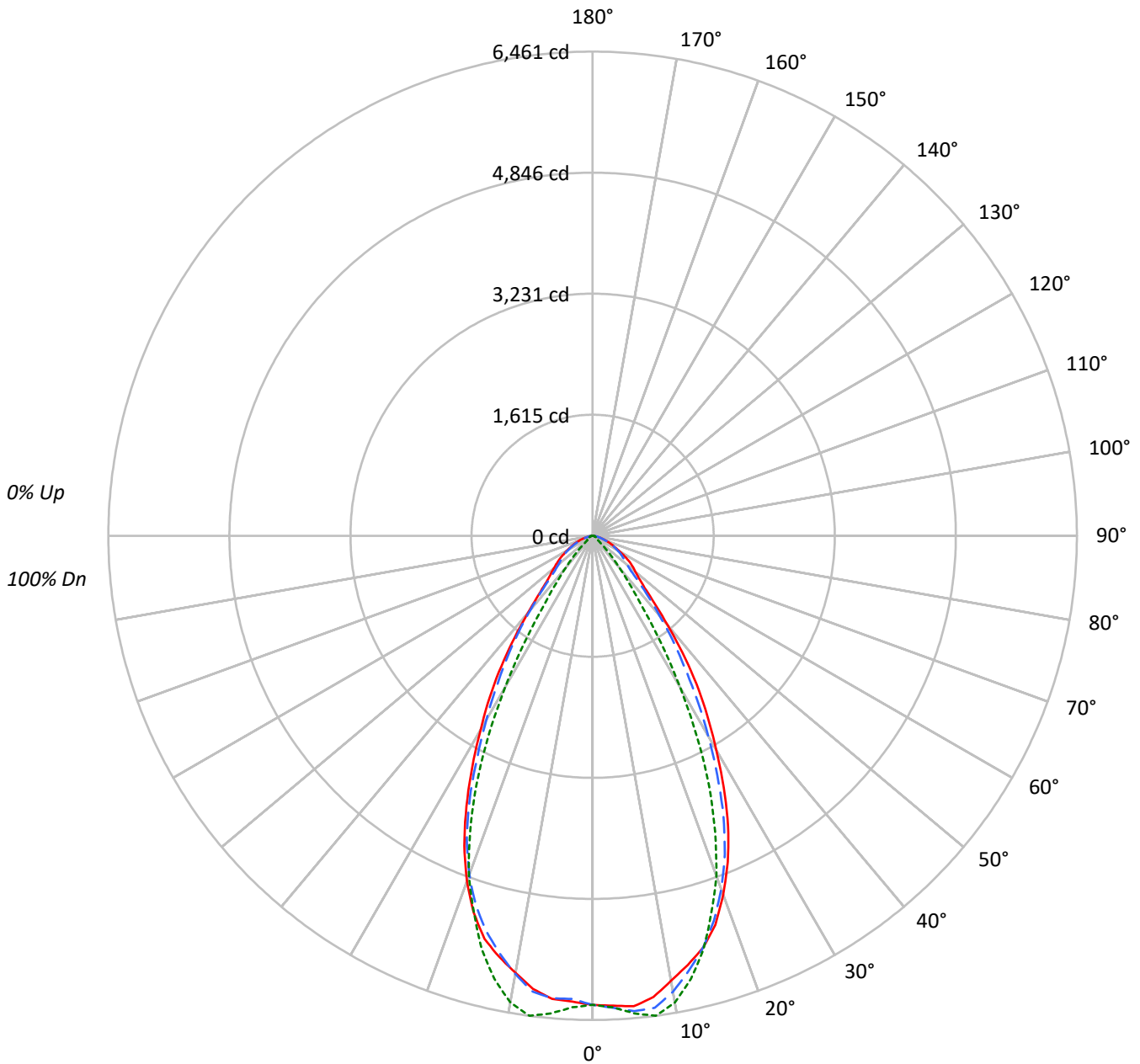
Lumens per Lamp: N/A
Luminaire Lumens: 6373.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	343174	343174	343174
5°	346763	352019	341332
10°	335526	352014	329681
15°	322930	324196	316063
20°	297211	281605	286062
25°	258662	222067	240939
30°	208614	147542	189263
35°	161733	76071	142131
40°	110972	39424	95701
45°	76031	19746	67147
50°	63273	8418	57567
55°	56906	7302	51429
60°	45040	6984	42935
65°	37176	6200	36761
70°	30117	5610	30117
75°	22261	6079	23596
80°	13070	5020	14080
85°	10001	6038	10001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.9	9.4
10°-20°	1564.0	24.5
20°-30°	1785.2	28.0
30°-40°	1183.9	18.6
40°-50°	571.0	9.0
50°-60°	351.3	5.5
60°-70°	212.5	3.3
70°-80°	89.4	1.4
80°-90°	19.7	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°	3945.1	61.9
0°-40°	5129.0	80.5
0°-60°	6051.3	95.0
0°-90°	6373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6373.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6260	6260	6260	6260	6260	
5°	6301	6368	6397	6193	6203	592
15°	5690	5690	5712	5470	5569	1586
25°	4276	4133	3671	3885	3983	1939
35°	2417	2130	1137	1987	2124	1495
45°	981	860	255	802	866	800
55°	595	484	76	484	538	523
65°	287	274	48	258	283	288
75°	105	105	29	99	111	112
85°	16	22	10	16	16	20
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°	6260.0	6260.0	6260.0	6260.0	6260.0	6260.0	6260.0	6260.0	6260.0
2.5°	6275.9	6285.4	6304.5	6307.7	6298.2	6237.7	6186.7	6205.8	6221.8
5°	6301.4	6320.5	6368.2	6412.8	6396.9	6295.0	6193.1	6189.9	6202.7
7.5°	6209.0	6253.6	6352.3	6463.8	6460.6	6285.4	6135.8	6097.6	6097.6
10°	6027.5	6068.9	6177.2	6326.8	6323.7	6103.9	5938.4	5919.3	5922.5
12.5°	5865.1	5884.2	5938.4	6056.2	6056.2	5839.7	5712.3	5731.4	5756.9
15°	5690.0	5702.7	5690.0	5728.2	5712.3	5534.0	5470.3	5530.8	5569.0
17.5°	5441.7	5448.0	5381.2	5330.2	5269.7	5158.3	5174.2	5263.3	5272.9
20°	5094.6	5136.0	5015.0	4884.4	4827.1	4722.0	4811.2	4909.9	4903.5
22.5°	4712.5	4760.3	4604.2	4387.7	4269.9	4228.5	4387.7	4476.9	4473.7
25°	4276.3	4311.3	4133.0	3830.5	3671.3	3664.9	3884.6	3977.0	3983.3
27.5°	3785.9	3798.6	3598.0	3203.2	3005.8	3053.6	3330.6	3457.9	3473.9
30°	3295.6	3289.2	3082.2	2591.9	2330.8	2461.3	2833.9	2974.0	2989.9
32.5°	2846.6	2827.5	2591.9	2006.0	1693.9	1888.2	2378.5	2525.0	2550.5
35°	2416.7	2384.9	2130.2	1483.8	1136.7	1426.5	1986.9	2114.3	2123.8
37.5°	1967.8	1951.9	1751.3	1111.3	792.8	1082.6	1620.7	1713.1	1703.5
40°	1550.7	1550.7	1385.1	824.7	550.9	805.6	1283.2	1366.0	1337.3
42.5°	1216.3	1232.3	1092.2	608.2	391.6	598.6	1015.7	1092.2	1060.3
45°	980.7	980.7	859.7	452.1	254.7	445.8	802.4	872.4	866.1
47.5°	831.1	818.3	697.3	331.1	140.1	334.3	675.0	761.0	757.8
50°	741.9	722.8	598.6	261.1	98.7	277.0	592.2	671.8	675.0
52.5°	671.8	643.2	538.1	232.4	86.0	242.0	538.1	601.8	601.8
55°	595.4	579.5	484.0	207.0	76.4	216.5	484.0	541.3	538.1
57.5°	503.1	499.9	433.0	187.9	70.1	191.0	433.0	468.1	455.3
60°	410.8	423.5	375.7	168.8	63.7	171.9	369.4	398.0	391.6
62.5°	343.9	359.8	328.0	149.7	54.1	152.8	312.0	340.7	334.3
65°	286.6	299.3	273.8	127.4	47.8	127.4	257.9	283.4	283.4
67.5°	235.6	245.2	226.1	105.1	41.4	105.1	210.2	232.4	235.6
70°	187.9	194.2	178.3	82.8	35.0	86.0	165.6	187.9	187.9
72.5°	146.5	149.7	140.1	66.9	31.8	66.9	127.4	146.5	146.5
75°	105.1	111.4	105.1	50.9	28.7	50.9	98.7	108.3	111.4
77.5°	60.5	76.4	76.4	41.4	22.3	38.2	70.1	73.2	73.2
80°	41.4	47.8	54.1	28.7	15.9	28.7	44.6	47.8	44.6
82.5°	28.7	31.8	31.8	19.1	12.7	19.1	28.7	31.8	28.7
85°	15.9	22.3	22.3	15.9	9.6	12.7	15.9	19.1	15.9
87.5°	9.6	12.7	15.9	12.7	9.6	9.6	9.6	9.6	6.4
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)