

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: P800071

Luminaire Tested: **LD6C70D010 EU6709050 6LBMDSWWMH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P800071
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: LD6C70D010 EU6709050 6LBMDSWWMH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

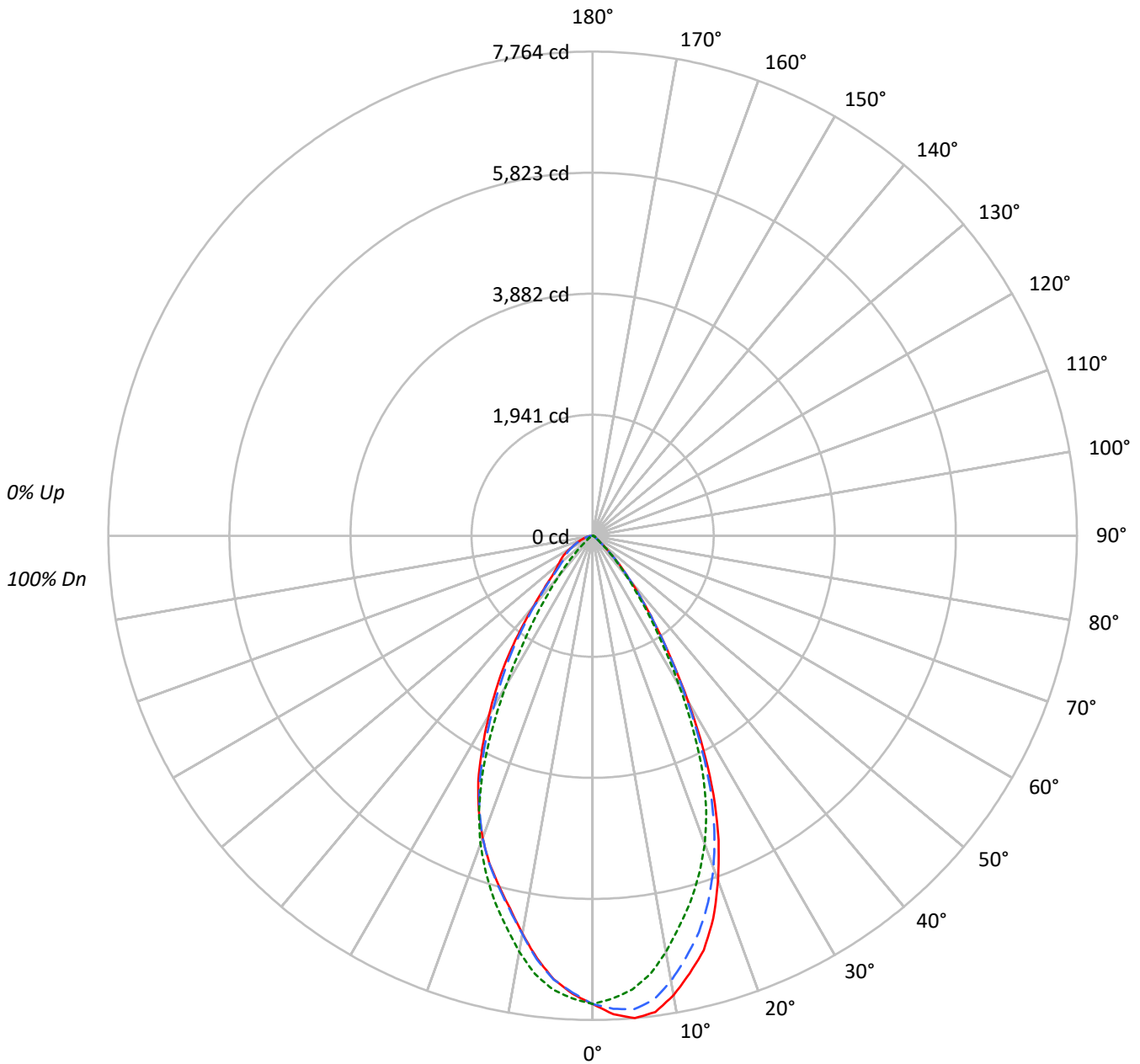
Lumens per Lamp: N/A
Luminaire Lumens: 6464.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P800071

CATALOG NUMBER: LD6C70D010 EU6709050 6LBMDSWWMH

Luminous Intensity Polar Plot





TEST NUMBER: P800071

CATALOG NUMBER: LD6C70D010 EU6709050 6LBMDSWWMH

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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67					67			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63					63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59					59			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55					55			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52					52			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	411584	411584	411584
5°	427233	401925	392834
10°	416308	377003	360414
15°	390439	344486	329593
20°	342761	306673	300816
25°	277220	251948	262328
30°	192726	175502	209950
35°	118782	107512	158454
40°	67219	60263	105233
45°	32647	31135	71814
50°	12435	12435	61047
55°	6815	8048	56342
60°	4967	6392	46170
65°	4203	5461	37812
70°	3638	4680	31143
75°	3431	4808	26751
80°	2052	4104	19415
85°	2013	8177	18367



TEST NUMBER: P800071

CATALOG NUMBER: LD6C70D010 EU6709050 6LBMDSWWMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.3	10.6
10°-20°	1727.5	26.7
20°-30°	1944.7	30.1
30°-40°	1204.2	18.6
40°-50°	479.5	7.4
50°-60°	218.3	3.4
60°-70°	125.5	1.9
70°-80°	59.6	0.9
80°-90°	17.4	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°	4359.5	67.4
0°-40°	5563.7	86.1
0°-60°	6261.5	96.9
0°-90°	6464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6464.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7508	7508	7508	7508	7508	
5°	7764	7621	7304	7145	7139	731
15°	6880	6582	6070	5824	5807	1903
25°	4583	4460	4165	4269	4337	2060
35°	1775	1765	1606	2238	2368	1141
45°	421	421	402	874	926	357
55°	71	68	84	518	590	71
65°	32	29	42	288	292	32
75°	16	16	23	123	126	17
85°	3	3	13	29	29	3
90°	0	0	0	0	0	



TEST NUMBER: P800071

CATALOG NUMBER: LD6C70D010 EU6709050 6LBMDSWWMH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7507.9	7507.9	7507.9	7507.9	7507.9	7507.9	7507.9	7507.9	7507.9
2.5°	7679.5	7608.3	7592.1	7530.5	7426.9	7368.6	7333.0	7307.0	7352.4
5°	7763.7	7686.0	7621.2	7494.9	7303.8	7196.9	7145.1	7103.0	7138.6
7.5°	7702.2	7592.1	7504.6	7329.7	7086.8	6921.6	6850.3	6801.8	6834.2
10°	7478.7	7345.9	7245.5	7038.2	6772.6	6575.0	6487.6	6442.2	6474.6
12.5°	7187.2	7077.1	6924.8	6698.1	6413.1	6205.8	6141.0	6105.4	6118.4
15°	6879.5	6749.9	6581.5	6354.8	6069.8	5862.5	5823.6	5800.9	5807.4
17.5°	6432.5	6306.2	6160.5	5940.2	5677.9	5509.4	5509.4	5493.2	5503.0
20°	5875.4	5807.4	5664.9	5480.3	5256.8	5104.6	5153.1	5137.0	5156.4
22.5°	5273.0	5221.2	5098.1	4945.9	4758.0	4638.2	4745.0	4741.8	4767.7
25°	4583.1	4544.2	4460.0	4330.5	4165.3	4090.8	4268.9	4268.9	4336.9
27.5°	3821.9	3783.1	3724.8	3614.7	3478.6	3455.9	3718.3	3750.7	3825.2
30°	3044.6	3018.7	2986.3	2885.9	2772.5	2814.6	3177.4	3232.5	3316.7
32.5°	2351.5	2335.3	2325.6	2234.9	2134.5	2273.7	2688.3	2759.6	2843.8
35°	1774.9	1739.3	1765.2	1697.2	1606.5	1781.4	2238.1	2299.6	2367.7
37.5°	1308.5	1282.6	1305.3	1256.7	1175.7	1366.8	1797.6	1836.5	1881.8
40°	939.3	916.6	936.1	906.9	842.1	1020.3	1408.9	1451.0	1470.5
42.5°	667.2	628.4	647.8	625.1	592.7	767.6	1107.7	1146.6	1153.1
45°	421.1	408.1	421.1	408.1	401.6	570.1	874.5	910.1	926.3
47.5°	255.9	239.7	239.7	233.2	239.7	421.1	722.3	774.1	800.0
50°	145.8	139.3	136.0	132.8	145.8	330.4	625.1	683.4	715.8
52.5°	97.2	93.9	93.9	90.7	106.9	278.5	563.6	615.4	647.8
55°	71.3	68.0	68.0	68.0	84.2	239.7	518.2	560.3	589.5
57.5°	55.1	55.1	55.1	51.8	71.3	204.1	463.2	485.8	508.5
60°	45.3	42.1	42.1	42.1	58.3	174.9	398.4	408.1	421.1
62.5°	35.6	35.6	35.6	35.6	48.6	155.5	343.3	343.3	349.8
65°	32.4	29.2	29.2	29.2	42.1	136.0	288.3	285.0	291.5
67.5°	25.9	25.9	25.9	25.9	35.6	116.6	236.4	233.2	239.7
70°	22.7	22.7	22.7	22.7	29.2	97.2	191.1	187.9	194.3
72.5°	19.4	19.4	19.4	19.4	25.9	81.0	152.2	152.2	155.5
75°	16.2	16.2	16.2	16.2	22.7	61.5	123.1	123.1	126.3
77.5°	13.0	13.0	13.0	13.0	16.2	48.6	93.9	90.7	90.7
80°	6.5	9.7	9.7	9.7	13.0	35.6	68.0	61.5	61.5
82.5°	3.2	6.5	6.5	6.5	13.0	25.9	45.3	42.1	42.1
85°	3.2	3.2	3.2	9.7	13.0	19.4	29.2	29.2	29.2
87.5°	0.0	3.2	6.5	13.0	16.2	16.2	19.4	16.2	16.2
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)