

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: P800059

Luminaire Tested: **LD6C70D010 EU6709040 6LBMDSWWMH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P800059
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 EU6709040 6LBMDSWWMH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

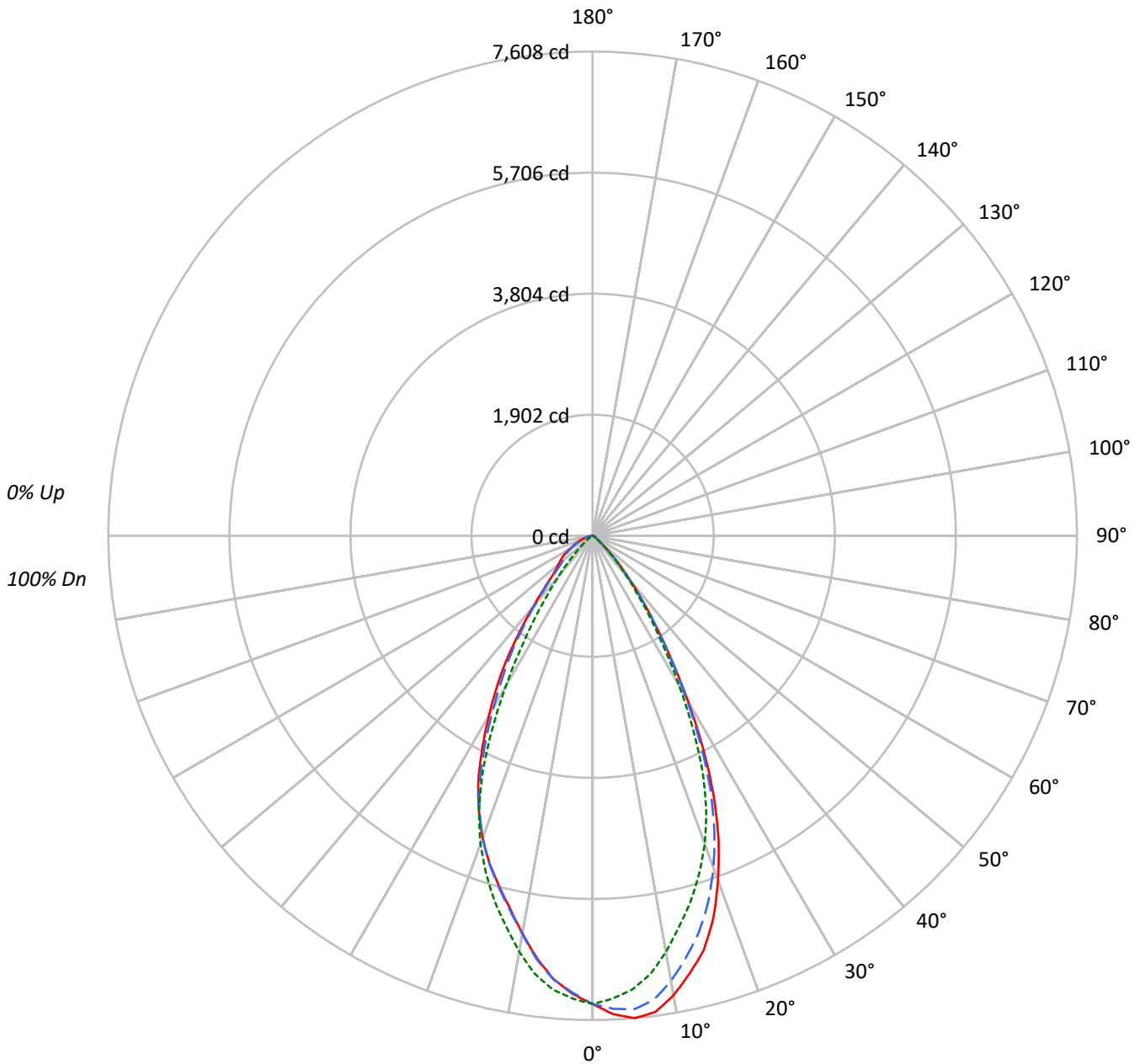
Lumens per Lamp: N/A
Luminaire Lumens: 6334.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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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				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°	403307	403307	403307
5°	418643	393841	384932
10°	407936	369421	353166
15°	382584	337556	322964
20°	335872	300507	294766
25°	271643	246879	257053
30°	188852	171976	205728
35°	116393	105350	155262
40°	65866	59053	103115
45°	31988	30515	70372
50°	12179	12179	59819
55°	6671	7885	55205
60°	4868	6260	45238
65°	4112	5357	37047
70°	3558	4584	30518
75°	3368	4702	26222
80°	1989	4009	19037
85°	2013	7988	17989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.5	10.6
10°-20°	1692.7	26.7
20°-30°	1905.6	30.1
30°-40°	1180.0	18.6
40°-50°	469.9	7.4
50°-60°	213.9	3.4
60°-70°	123.0	1.9
70°-80°	58.4	0.9
80°-90°	17.0	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°	4271.8	67.4
0°-40°	5451.8	86.1
0°-60°	6135.6	96.9
0°-90°	6334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6334.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7357	7357	7357	7357	7357	
5°	7608	7468	7157	7001	6995	716
15°	6741	6449	5948	5706	5691	1865
25°	4491	4370	4082	4183	4250	2019
35°	1739	1730	1574	2193	2320	1118
45°	413	413	394	857	908	350
55°	70	67	82	508	578	69
65°	32	29	41	282	286	31
75°	16	16	22	121	124	16
85°	3	3	13	29	29	3
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°	7356.9	7356.9	7356.9	7356.9	7356.9	7356.9	7356.9	7356.9	7356.9
2.5°	7525.1	7455.2	7439.4	7379.1	7277.5	7220.4	7185.5	7160.1	7204.5
5°	7607.6	7531.4	7467.9	7344.2	7156.9	7052.2	7001.4	6960.1	6995.0
7.5°	7547.3	7439.4	7353.7	7182.3	6944.3	6782.4	6712.6	6665.0	6696.7
10°	7328.3	7198.2	7099.8	6896.7	6636.4	6442.8	6357.1	6312.7	6344.4
12.5°	7042.7	6934.7	6785.6	6563.4	6284.1	6081.0	6017.5	5982.6	5995.3
15°	6741.1	6614.2	6449.2	6227.0	5947.7	5744.6	5706.5	5684.3	5690.6
17.5°	6303.2	6179.4	6036.6	5820.7	5563.7	5398.6	5398.6	5382.8	5392.3
20°	5757.3	5690.6	5551.0	5370.1	5151.1	5001.9	5049.5	5033.6	5052.7
22.5°	5166.9	5116.2	4995.6	4846.4	4662.3	4544.9	4649.6	4646.4	4671.8
25°	4490.9	4452.8	4370.3	4243.4	4081.5	4008.5	4183.1	4183.1	4249.7
27.5°	3745.1	3707.0	3649.9	3542.0	3408.7	3386.4	3643.5	3675.3	3748.3
30°	2983.4	2958.0	2926.2	2827.9	2716.8	2758.0	3113.5	3167.4	3250.0
32.5°	2304.2	2288.3	2278.8	2189.9	2091.5	2228.0	2634.3	2704.1	2786.6
35°	1739.2	1704.3	1729.7	1663.1	1574.2	1745.6	2193.1	2253.4	2320.0
37.5°	1282.2	1256.8	1279.0	1231.4	1152.1	1339.3	1761.5	1799.5	1844.0
40°	920.4	898.2	917.2	888.7	825.2	999.7	1380.6	1421.9	1440.9
42.5°	653.8	615.7	634.8	612.5	580.8	752.2	1085.4	1123.5	1129.9
45°	412.6	399.9	412.6	399.9	393.6	558.6	856.9	891.8	907.7
47.5°	250.7	234.9	234.9	228.5	234.9	412.6	707.8	758.5	783.9
50°	142.8	136.5	133.3	130.1	142.8	323.7	612.5	669.7	701.4
52.5°	95.2	92.0	92.0	88.9	104.7	272.9	552.2	603.0	634.8
55°	69.8	66.6	66.6	66.6	82.5	234.9	507.8	549.1	577.6
57.5°	54.0	54.0	54.0	50.8	69.8	199.9	453.9	476.1	498.3
60°	44.4	41.3	41.3	41.3	57.1	171.4	390.4	399.9	412.6
62.5°	34.9	34.9	34.9	34.9	47.6	152.3	336.4	336.4	342.8
65°	31.7	28.6	28.6	28.6	41.3	133.3	282.5	279.3	285.6
67.5°	25.4	25.4	25.4	25.4	34.9	114.3	231.7	228.5	234.9
70°	22.2	22.2	22.2	22.2	28.6	95.2	187.3	184.1	190.4
72.5°	19.0	19.0	19.0	19.0	25.4	79.3	149.2	149.2	152.3
75°	15.9	15.9	15.9	15.9	22.2	60.3	120.6	120.6	123.8
77.5°	12.7	12.7	12.7	12.7	15.9	47.6	92.0	88.9	88.9
80°	6.3	9.5	9.5	9.5	12.7	34.9	66.6	60.3	60.3
82.5°	3.2	6.3	6.3	6.3	12.7	25.4	44.4	41.3	41.3
85°	3.2	3.2	3.2	9.5	12.7	19.0	28.6	28.6	28.6
87.5°	0.0	3.2	6.3	12.7	15.9	15.9	19.0	15.9	15.9
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)