

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: P800019

Luminaire Tested: **LD6C70D010 EU6709027 6LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P800019
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 EU6709027 6LBMDSWH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

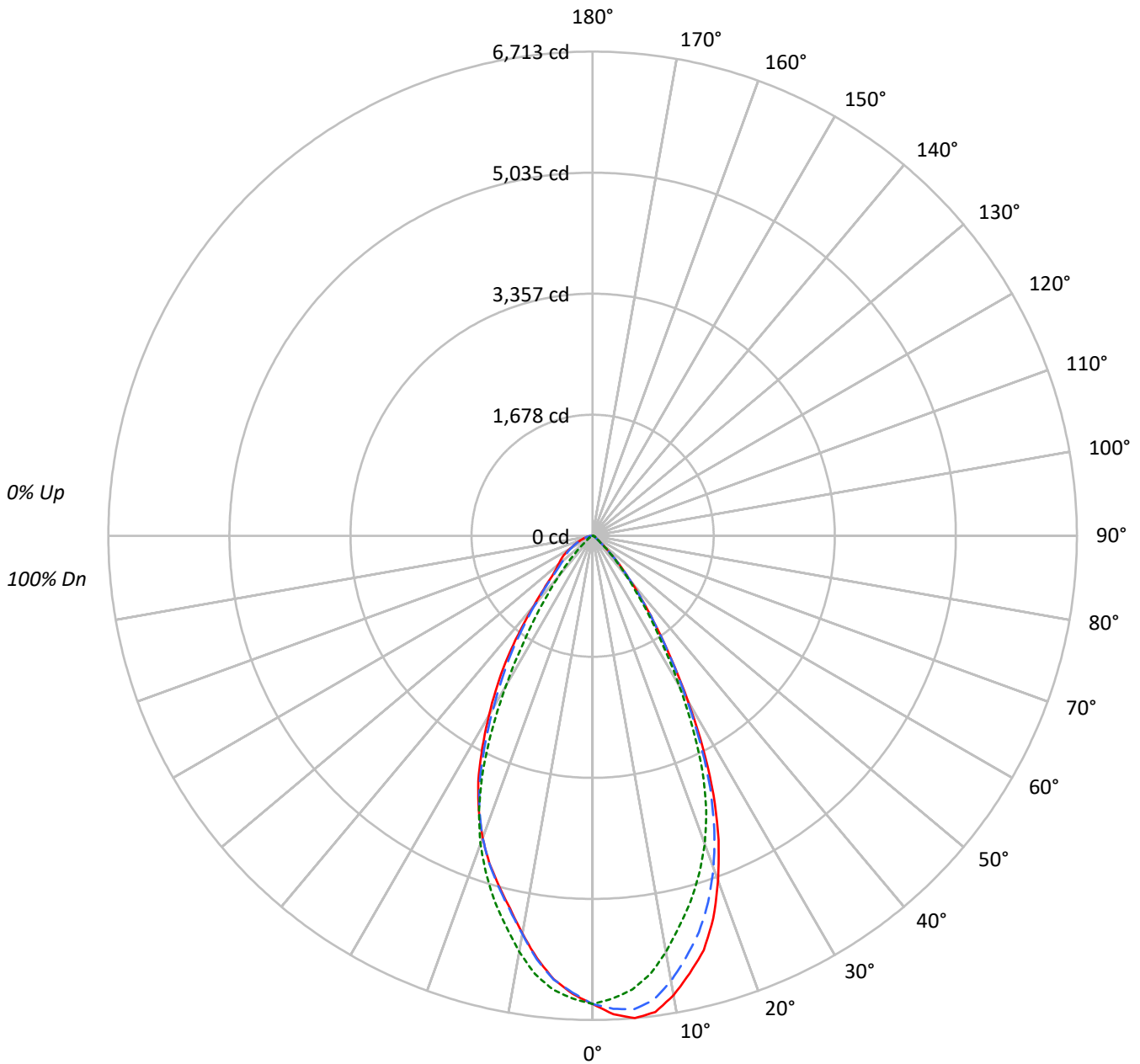
Lumens per Lamp: N/A
Luminaire Lumens: 5589.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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																			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	355871	355871	355871
5°	369403	347517	339659
10°	359952	325968	311629
15°	337590	297851	284979
20°	296365	265160	260096
25°	239693	217839	226822
30°	166640	151745	181528
35°	102707	92956	137005
40°	58116	52105	90985
45°	28228	26925	62092
50°	10746	10746	52783
55°	5887	6958	48715
60°	4298	5526	39920
65°	3632	4722	32688
70°	3142	4039	26928
75°	2965	4151	23130
80°	1768	3536	16795
85°	1761	7045	15851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.3	10.6
10°-20°	1493.6	26.7
20°-30°	1681.4	30.1
30°-40°	1041.2	18.6
40°-50°	414.6	7.4
50°-60°	188.8	3.4
60°-70°	108.5	1.9
70°-80°	51.5	0.9
80°-90°	15.0	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°	3769.4	67.4
0°-40°	4810.5	86.1
0°-60°	5413.9	96.9
0°-90°	5589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5589.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6492	6492	6492	6492	6492	
5°	6713	6590	6315	6178	6172	632
15°	5948	5691	5248	5035	5021	1646
25°	3963	3856	3601	3691	3750	1781
35°	1535	1526	1389	1935	2047	986
45°	364	364	347	756	801	308
55°	62	59	73	448	510	61
65°	28	25	36	249	252	27
75°	14	14	20	106	109	14
85°	3	3	11	25	25	2
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°	6491.6	6491.6	6491.6	6491.6	6491.6	6491.6	6491.6	6491.6	6491.6
2.5°	6640.0	6578.4	6564.4	6511.2	6421.5	6371.1	6340.3	6317.9	6357.1
5°	6712.8	6645.6	6589.6	6480.4	6315.1	6222.7	6177.9	6141.5	6172.3
7.5°	6659.6	6564.4	6488.8	6337.5	6127.5	5984.7	5923.1	5881.0	5909.0
10°	6466.3	6351.5	6264.7	6085.5	5855.8	5685.0	5609.4	5570.2	5598.2
12.5°	6214.3	6119.1	5987.5	5791.4	5545.0	5365.8	5309.7	5278.9	5290.1
15°	5948.3	5836.2	5690.6	5494.6	5248.1	5068.9	5035.3	5015.7	5021.3
17.5°	5561.8	5452.6	5326.5	5136.1	4909.3	4763.6	4763.6	4749.6	4758.0
20°	5080.1	5021.3	4898.1	4738.4	4545.2	4413.6	4455.6	4441.6	4458.4
22.5°	4559.2	4514.4	4408.0	4276.4	4113.9	4010.3	4102.7	4099.9	4122.3
25°	3962.7	3929.1	3856.3	3744.3	3601.4	3537.0	3691.1	3691.1	3749.9
27.5°	3304.6	3271.0	3220.6	3125.4	3007.7	2988.1	3215.0	3243.0	3307.4
30°	2632.5	2610.1	2582.1	2495.2	2397.2	2433.6	2747.3	2794.9	2867.7
32.5°	2033.2	2019.2	2010.8	1932.3	1845.5	1965.9	2324.4	2386.0	2458.8
35°	1534.7	1503.9	1526.3	1467.5	1389.0	1540.3	1935.1	1988.4	2047.2
37.5°	1131.4	1109.0	1128.6	1086.6	1016.6	1181.8	1554.3	1587.9	1627.1
40°	812.1	792.5	809.3	784.1	728.1	882.2	1218.2	1254.6	1271.4
42.5°	576.9	543.3	560.1	540.5	512.5	663.7	957.8	991.4	997.0
45°	364.1	352.9	364.1	352.9	347.3	492.9	756.1	786.9	800.9
47.5°	221.2	207.2	207.2	201.6	207.2	364.1	624.5	669.3	691.7
50°	126.0	120.4	117.6	114.8	126.0	285.7	540.5	590.9	618.9
52.5°	84.0	81.2	81.2	78.4	92.4	240.8	487.3	532.1	560.1
55°	61.6	58.8	58.8	58.8	72.8	207.2	448.1	484.5	509.7
57.5°	47.6	47.6	47.6	44.8	61.6	176.4	400.5	420.1	439.7
60°	39.2	36.4	36.4	36.4	50.4	151.2	344.5	352.9	364.1
62.5°	30.8	30.8	30.8	30.8	42.0	134.4	296.9	296.9	302.5
65°	28.0	25.2	25.2	25.2	36.4	117.6	249.2	246.4	252.0
67.5°	22.4	22.4	22.4	22.4	30.8	100.8	204.4	201.6	207.2
70°	19.6	19.6	19.6	19.6	25.2	84.0	165.2	162.4	168.0
72.5°	16.8	16.8	16.8	16.8	22.4	70.0	131.6	131.6	134.4
75°	14.0	14.0	14.0	14.0	19.6	53.2	106.4	106.4	109.2
77.5°	11.2	11.2	11.2	11.2	14.0	42.0	81.2	78.4	78.4
80°	5.6	8.4	8.4	8.4	11.2	30.8	58.8	53.2	53.2
82.5°	2.8	5.6	5.6	5.6	11.2	22.4	39.2	36.4	36.4
85°	2.8	2.8	2.8	8.4	11.2	16.8	25.2	25.2	25.2
87.5°	0.0	2.8	5.6	11.2	14.0	14.0	16.8	14.0	14.0
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)