

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: P799742

Luminaire Tested: **LD6C45D010 EU6459035 6LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799742
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: LD6C45D010 EU6459035 6LBMDSWGPH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

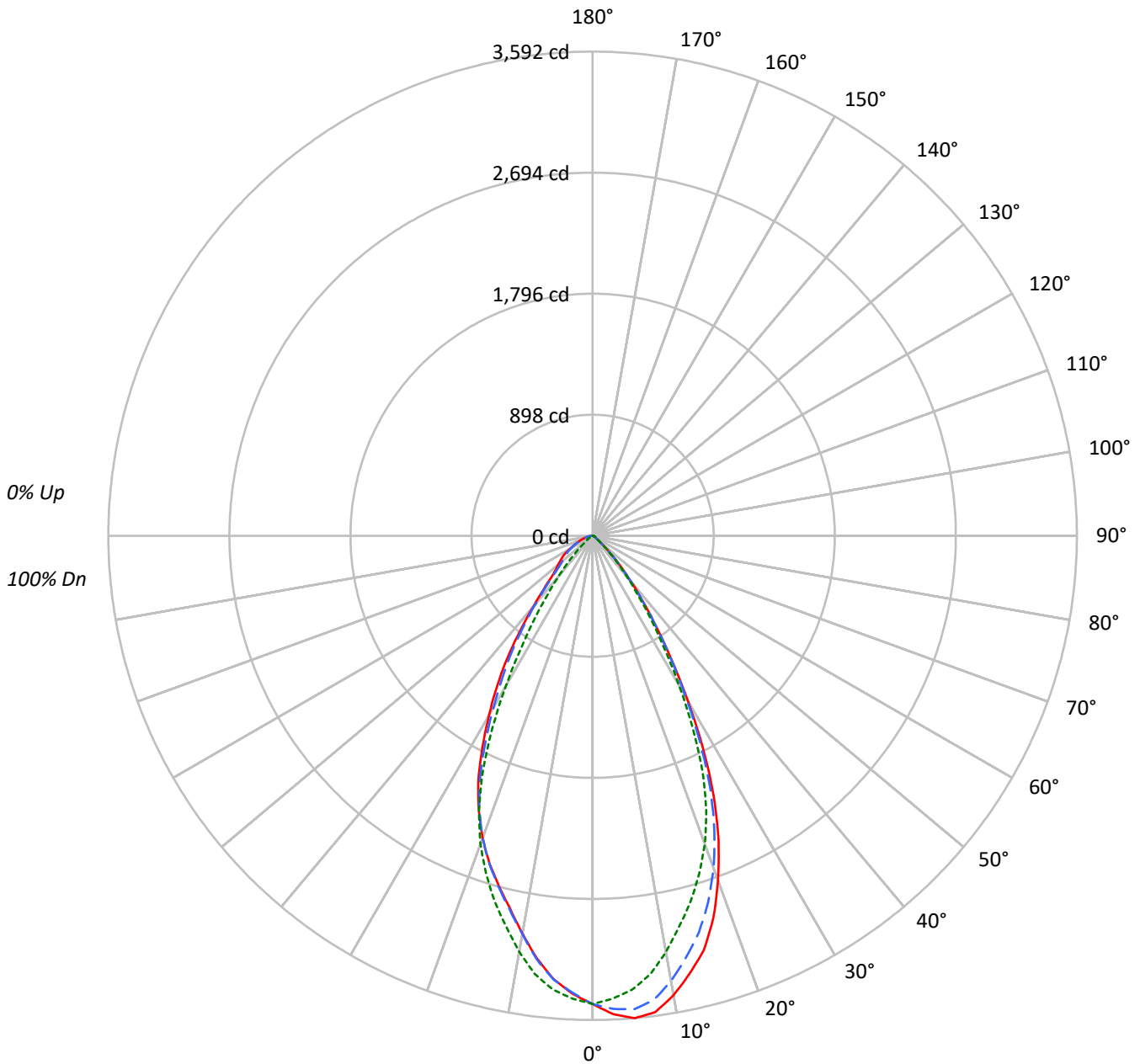
Lumens per Lamp: N/A
Luminaire Lumens: 2991.0 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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	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	57	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°	190445	190445	190445
5°	197688	185978	181774
10°	192632	174446	166769
15°	180665	159399	152509
20°	158605	141902	139190
25°	128276	116577	121386
30°	89178	81209	97148
35°	54964	49751	73321
40°	31101	27888	48691
45°	15102	14405	33228
50°	5748	5748	28246
55°	3154	3727	26073
60°	2302	2960	21358
65°	1946	2529	17499
70°	1683	2164	14409
75°	1589	2224	12370
80°	947	1894	8997
85°	943	3774	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.0	10.6
10°-20°	799.3	26.7
20°-30°	899.8	30.1
30°-40°	557.2	18.6
40°-50°	221.9	7.4
50°-60°	101.0	3.4
60°-70°	58.1	1.9
70°-80°	27.6	0.9
80°-90°	8.1	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°	2017.2	67.4
0°-40°	2574.4	86.1
0°-60°	2897.3	96.9
0°-90°	2991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2991.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3474	3474	3474	3474	3474	
5°	3592	3526	3380	3306	3303	338
15°	3183	3045	2809	2695	2687	881
25°	2121	2064	1927	1975	2007	953
35°	821	817	743	1036	1096	528
45°	195	195	186	405	429	165
55°	33	32	39	240	273	33
65°	15	14	20	133	135	15
75°	8	8	10	57	58	8
85°	2	2	6	14	14	1
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°	3474.0	3474.0	3474.0	3474.0	3474.0	3474.0	3474.0	3474.0	3474.0
2.5°	3553.4	3520.5	3513.0	3484.5	3436.5	3409.6	3393.1	3381.1	3402.1
5°	3592.4	3556.4	3526.5	3468.0	3379.6	3330.1	3306.2	3286.7	3303.2
7.5°	3563.9	3513.0	3472.5	3391.6	3279.2	3202.7	3169.8	3147.3	3162.3
10°	3460.5	3399.1	3352.6	3256.7	3133.8	3042.4	3001.9	2980.9	2995.9
12.5°	3325.6	3274.7	3204.2	3099.3	2967.4	2871.5	2841.6	2825.1	2831.1
15°	3183.3	3123.3	3045.4	2940.5	2808.6	2712.7	2694.7	2684.2	2687.2
17.5°	2976.4	2918.0	2850.5	2748.6	2627.2	2549.3	2549.3	2541.8	2546.3
20°	2718.7	2687.2	2621.2	2535.8	2432.4	2362.0	2384.4	2377.0	2385.9
22.5°	2439.9	2415.9	2359.0	2288.5	2201.6	2146.2	2195.6	2194.1	2206.1
25°	2120.7	2102.7	2063.7	2003.8	1927.3	1892.9	1975.3	1975.3	2006.8
27.5°	1768.5	1750.5	1723.5	1672.6	1609.6	1599.1	1720.5	1735.5	1770.0
30°	1408.8	1396.8	1381.8	1335.4	1282.9	1302.4	1470.2	1495.7	1534.7
32.5°	1088.1	1080.6	1076.1	1034.1	987.6	1052.1	1243.9	1276.9	1315.9
35°	821.3	804.8	816.8	785.3	743.4	824.3	1035.6	1064.1	1095.6
37.5°	605.5	593.5	604.0	581.5	544.0	632.5	831.8	849.8	870.8
40°	434.6	424.1	433.1	419.6	389.7	472.1	651.9	671.4	680.4
42.5°	308.7	290.7	299.7	289.3	274.3	355.2	512.6	530.5	533.5
45°	194.8	188.8	194.8	188.8	185.8	263.8	404.7	421.1	428.6
47.5°	118.4	110.9	110.9	107.9	110.9	194.8	334.2	358.2	370.2
50°	67.4	64.4	62.9	61.4	67.4	152.9	289.3	316.2	331.2
52.5°	45.0	43.5	43.5	42.0	49.5	128.9	260.8	284.8	299.7
55°	33.0	31.5	31.5	31.5	39.0	110.9	239.8	259.3	272.8
57.5°	25.5	25.5	25.5	24.0	33.0	94.4	214.3	224.8	235.3
60°	21.0	19.5	19.5	19.5	27.0	80.9	184.3	188.8	194.8
62.5°	16.5	16.5	16.5	16.5	22.5	71.9	158.9	158.9	161.9
65°	15.0	13.5	13.5	13.5	19.5	62.9	133.4	131.9	134.9
67.5°	12.0	12.0	12.0	12.0	16.5	54.0	109.4	107.9	110.9
70°	10.5	10.5	10.5	10.5	13.5	45.0	88.4	86.9	89.9
72.5°	9.0	9.0	9.0	9.0	12.0	37.5	70.4	70.4	71.9
75°	7.5	7.5	7.5	7.5	10.5	28.5	57.0	57.0	58.4
77.5°	6.0	6.0	6.0	6.0	7.5	22.5	43.5	42.0	42.0
80°	3.0	4.5	4.5	4.5	6.0	16.5	31.5	28.5	28.5
82.5°	1.5	3.0	3.0	3.0	6.0	12.0	21.0	19.5	19.5
85°	1.5	1.5	1.5	4.5	6.0	9.0	13.5	13.5	13.5
87.5°	0.0	1.5	3.0	6.0	7.5	7.5	9.0	7.5	7.5
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)