

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: P799756

Luminaire Tested: **LD6C45D010 EU6459040 6LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799756
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 EU6459040 6LBMDSWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

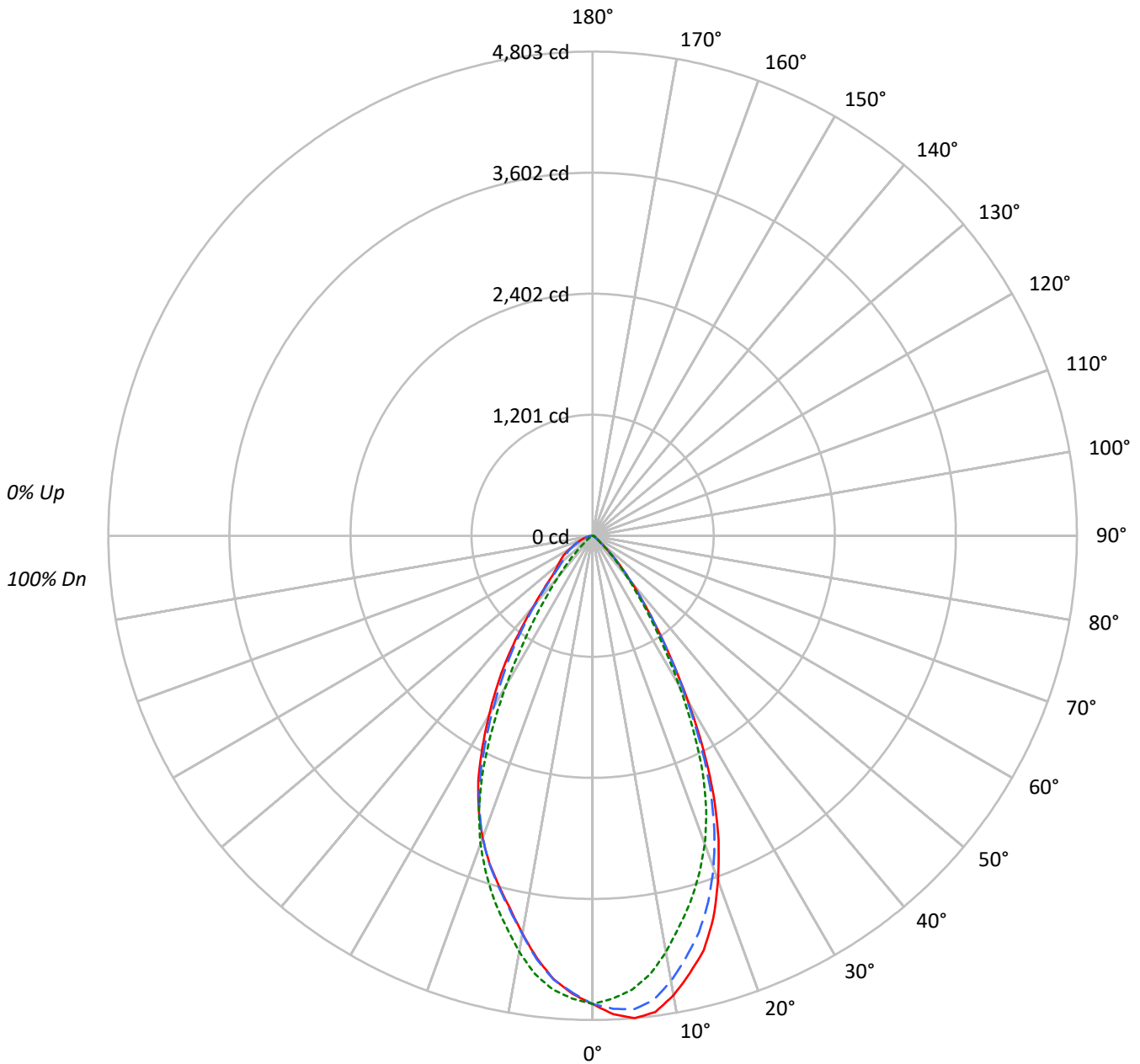
Lumens per Lamp: N/A
Luminaire Lumens: 3999.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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°	254629	254629	254629
5°	264313	248651	243033
10°	257555	233234	222975
15°	241551	213117	203906
20°	212054	189728	186100
25°	171506	155870	162294
30°	119234	108574	129887
35°	73488	66515	98029
40°	41585	37284	65101
45°	20196	19266	44431
50°	7693	7693	37764
55°	4215	4980	34857
60°	3081	3958	28561
65°	2594	3373	23388
70°	2244	2885	19266
75°	2118	2965	16542
80°	1263	2526	12028
85°	1258	5032	11322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.2	10.6
10°-20°	1068.7	26.7
20°-30°	1203.1	30.1
30°-40°	745.0	18.6
40°-50°	296.7	7.4
50°-60°	135.1	3.4
60°-70°	77.6	1.9
70°-80°	36.9	0.9
80°-90°	10.7	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°	2697.0	67.4
0°-40°	3442.0	86.1
0°-60°	3873.7	96.9
0°-90°	3999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4645	4645	4645	4645	4645	
5°	4803	4715	4518	4420	4416	452
15°	4256	4072	3755	3603	3593	1177
25°	2835	2759	2577	2641	2683	1275
35°	1098	1092	994	1385	1465	706
45°	260	260	248	541	573	221
55°	44	42	52	321	365	44
65°	20	18	26	178	180	20
75°	10	10	14	76	78	10
85°	2	2	8	18	18	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°	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8
2.5°	4751.0	4706.9	4696.9	4658.8	4594.7	4558.6	4536.6	4520.6	4548.6
5°	4803.1	4755.0	4714.9	4636.8	4518.5	4452.4	4420.4	4394.3	4416.4
7.5°	4765.0	4696.9	4642.8	4534.6	4384.3	4282.1	4238.0	4208.0	4228.0
10°	4626.8	4544.6	4482.5	4354.2	4189.9	4067.7	4013.6	3985.5	4005.6
12.5°	4446.4	4378.3	4284.1	4143.8	3967.5	3839.3	3799.2	3777.1	3785.2
15°	4256.1	4175.9	4071.7	3931.4	3755.1	3626.9	3602.8	3588.8	3592.8
17.5°	3979.5	3901.4	3811.2	3675.0	3512.6	3408.4	3408.4	3398.4	3404.4
20°	3634.9	3592.8	3504.6	3390.4	3252.2	3158.0	3188.0	3178.0	3190.0
22.5°	3262.2	3230.1	3154.0	3059.8	2943.6	2869.4	2935.6	2933.6	2949.6
25°	2835.4	2811.3	2759.2	2679.1	2576.9	2530.8	2641.0	2641.0	2683.1
27.5°	2364.5	2340.4	2304.4	2236.2	2152.1	2138.0	2300.4	2320.4	2366.5
30°	1883.6	1867.5	1847.5	1785.4	1715.2	1741.3	1965.7	1999.8	2051.9
32.5°	1454.8	1444.7	1438.7	1382.6	1320.5	1406.7	1663.1	1707.2	1759.3
35°	1098.1	1076.0	1092.1	1050.0	993.9	1102.1	1384.6	1422.7	1464.8
37.5°	809.5	793.5	807.5	777.5	727.4	845.6	1112.1	1136.1	1164.2
40°	581.1	567.1	579.1	561.1	521.0	631.2	871.6	897.7	909.7
42.5°	412.8	388.7	400.8	386.7	366.7	474.9	685.3	709.3	713.3
45°	260.5	252.5	260.5	252.5	248.5	352.7	541.0	563.1	573.1
47.5°	158.3	148.3	148.3	144.3	148.3	260.5	446.8	478.9	494.9
50°	90.2	86.2	84.2	82.2	90.2	204.4	386.7	422.8	442.8
52.5°	60.1	58.1	58.1	56.1	66.1	172.3	348.7	380.7	400.8
55°	44.1	42.1	42.1	42.1	52.1	148.3	320.6	346.7	364.7
57.5°	34.1	34.1	34.1	32.1	44.1	126.2	286.5	300.6	314.6
60°	28.1	26.0	26.0	26.0	36.1	108.2	246.5	252.5	260.5
62.5°	22.0	22.0	22.0	22.0	30.1	96.2	212.4	212.4	216.4
65°	20.0	18.0	18.0	18.0	26.0	84.2	178.3	176.3	180.3
67.5°	16.0	16.0	16.0	16.0	22.0	72.1	146.3	144.3	148.3
70°	14.0	14.0	14.0	14.0	18.0	60.1	118.2	116.2	120.2
72.5°	12.0	12.0	12.0	12.0	16.0	50.1	94.2	94.2	96.2
75°	10.0	10.0	10.0	10.0	14.0	38.1	76.1	76.1	78.1
77.5°	8.0	8.0	8.0	8.0	10.0	30.1	58.1	56.1	56.1
80°	4.0	6.0	6.0	6.0	8.0	22.0	42.1	38.1	38.1
82.5°	2.0	4.0	4.0	4.0	8.0	16.0	28.1	26.0	26.0
85°	2.0	2.0	2.0	6.0	8.0	12.0	18.0	18.0	18.0
87.5°	0.0	2.0	4.0	8.0	10.0	10.0	12.0	10.0	10.0
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)