

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: P799770

Luminaire Tested: **LD6C45D010 EU6459050 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799770
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 EU6459050 6LBMDSWWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

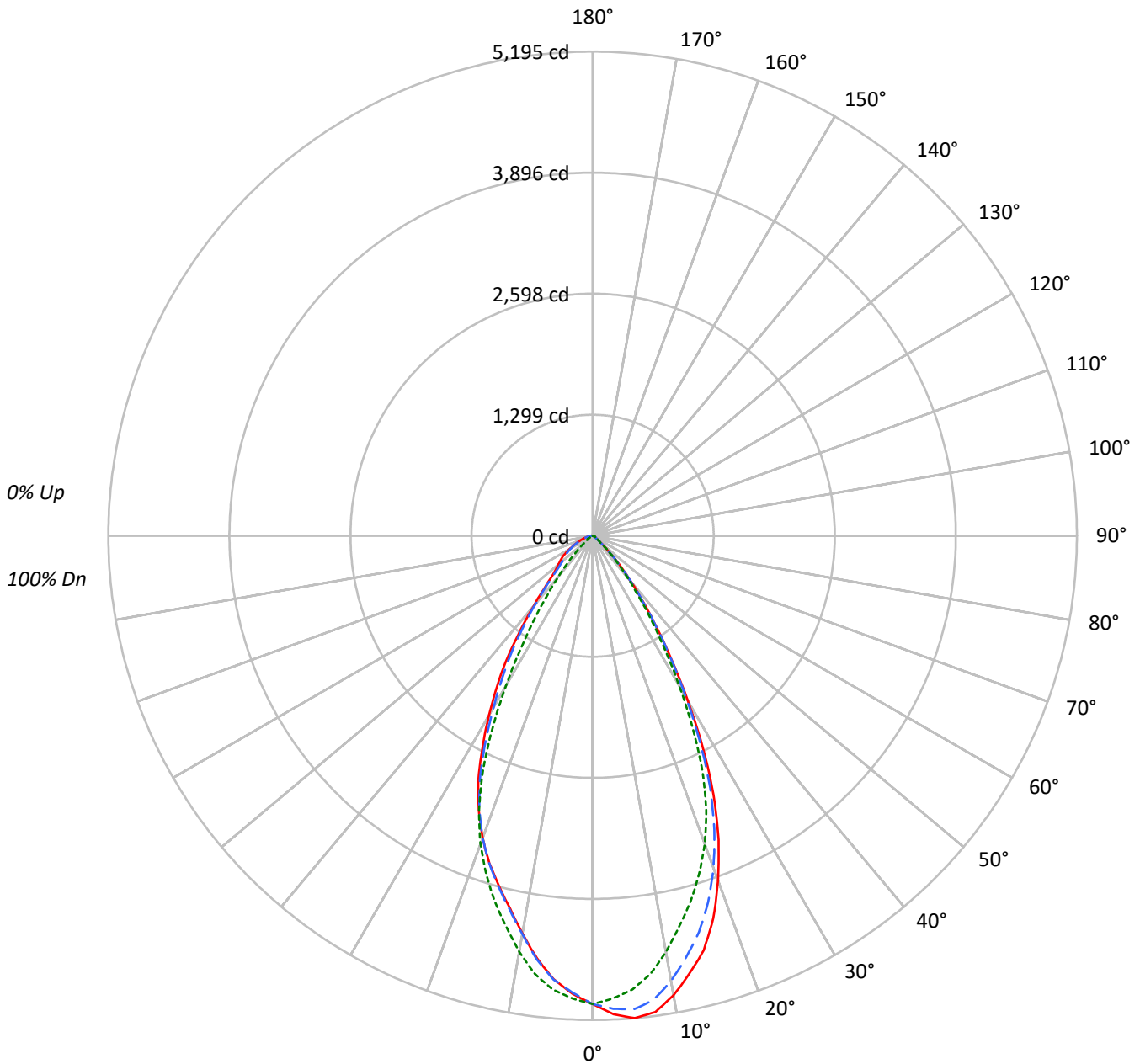
Lumens per Lamp: N/A
Luminaire Lumens: 4325.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	275384	275384	275384
5°	285857	268924	262843
10°	278546	252250	241150
15°	261239	230489	220529
20°	229340	205194	201273
25°	185485	168572	175522
30°	128950	117429	140477
35°	79478	71936	106020
40°	44977	40326	70410
45°	21839	20832	48051
50°	8315	8315	40843
55°	4559	5381	37695
60°	3322	4276	30886
65°	2815	3658	25295
70°	2436	3126	20837
75°	2288	3219	17898
80°	1357	2747	13007
85°	1384	5472	12265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.9	10.6
10°-20°	1155.8	26.7
20°-30°	1301.2	30.1
30°-40°	805.7	18.6
40°-50°	320.9	7.4
50°-60°	146.1	3.4
60°-70°	84.0	1.9
70°-80°	39.9	0.9
80°-90°	11.6	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°	2916.9	67.4
0°-40°	3722.6	86.1
0°-60°	4189.5	96.9
0°-90°	4325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4325.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5023	5023	5023	5023	5023	
5°	5195	5099	4887	4781	4776	489
15°	4603	4404	4061	3896	3886	1273
25°	3066	2984	2787	2856	2902	1378
35°	1188	1181	1075	1498	1584	763
45°	282	282	269	585	620	239
55°	48	46	56	347	394	47
65°	22	20	28	193	195	21
75°	11	11	15	82	84	11
85°	2	2	9	20	20	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°	5023.4	5023.4	5023.4	5023.4	5023.4	5023.4	5023.4	5023.4	5023.4
2.5°	5138.3	5090.6	5079.8	5038.6	4969.3	4930.2	4906.4	4889.1	4919.4
5°	5194.6	5142.6	5099.3	5014.8	4886.9	4815.4	4780.7	4752.5	4776.4
7.5°	5153.5	5079.8	5021.3	4904.2	4741.7	4631.2	4583.5	4551.0	4572.7
10°	5003.9	4915.1	4847.9	4709.2	4531.5	4399.3	4340.8	4310.4	4332.1
12.5°	4808.9	4735.2	4633.3	4481.6	4290.9	4152.2	4108.9	4085.1	4093.7
15°	4603.0	4516.3	4403.6	4251.9	4061.2	3922.5	3896.5	3881.3	3885.7
17.5°	4303.9	4219.4	4121.9	3974.5	3799.0	3686.3	3686.3	3675.5	3682.0
20°	3931.2	3885.7	3790.3	3666.8	3517.3	3415.4	3447.9	3437.1	3450.1
22.5°	3528.1	3493.4	3411.1	3309.2	3183.5	3103.3	3174.9	3172.7	3190.0
25°	3066.5	3040.5	2984.2	2897.5	2786.9	2737.1	2856.3	2856.3	2901.8
27.5°	2557.2	2531.2	2492.2	2418.5	2327.5	2312.3	2487.9	2509.5	2559.4
30°	2037.1	2019.8	1998.1	1930.9	1855.1	1883.2	2126.0	2162.8	2219.2
32.5°	1573.3	1562.5	1556.0	1495.3	1428.1	1521.3	1798.7	1846.4	1902.7
35°	1187.6	1163.8	1181.1	1135.6	1074.9	1191.9	1497.5	1538.7	1584.2
37.5°	875.5	858.2	873.4	840.9	786.7	914.5	1202.8	1228.8	1259.1
40°	628.5	613.3	626.3	606.8	563.5	682.6	942.7	970.9	983.9
42.5°	446.4	420.4	433.4	418.3	396.6	513.6	741.2	767.2	771.5
45°	281.7	273.1	281.7	273.1	268.7	381.4	585.1	609.0	619.8
47.5°	171.2	160.4	160.4	156.0	160.4	281.7	483.3	517.9	535.3
50°	97.5	93.2	91.0	88.9	97.5	221.0	418.3	457.3	478.9
52.5°	65.0	62.8	62.8	60.7	71.5	186.4	377.1	411.8	433.4
55°	47.7	45.5	45.5	45.5	56.3	160.4	346.7	374.9	394.4
57.5°	36.8	36.8	36.8	34.7	47.7	136.5	309.9	325.1	340.2
60°	30.3	28.2	28.2	28.2	39.0	117.0	266.6	273.1	281.7
62.5°	23.8	23.8	23.8	23.8	32.5	104.0	229.7	229.7	234.1
65°	21.7	19.5	19.5	19.5	28.2	91.0	192.9	190.7	195.0
67.5°	17.3	17.3	17.3	17.3	23.8	78.0	158.2	156.0	160.4
70°	15.2	15.2	15.2	15.2	19.5	65.0	127.9	125.7	130.0
72.5°	13.0	13.0	13.0	13.0	17.3	54.2	101.9	101.9	104.0
75°	10.8	10.8	10.8	10.8	15.2	41.2	82.4	82.4	84.5
77.5°	8.7	8.7	8.7	8.7	10.8	32.5	62.8	60.7	60.7
80°	4.3	6.5	6.5	6.5	8.7	23.8	45.5	41.2	41.2
82.5°	2.2	4.3	4.3	4.3	8.7	17.3	30.3	28.2	28.2
85°	2.2	2.2	2.2	6.5	8.7	13.0	19.5	19.5	19.5
87.5°	0.0	2.2	4.3	8.7	10.8	10.8	13.0	10.8	10.8
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)