

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: P799767

Luminaire Tested: **LD6C45D010 EU6459050 6LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799767
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 6LBMDSWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

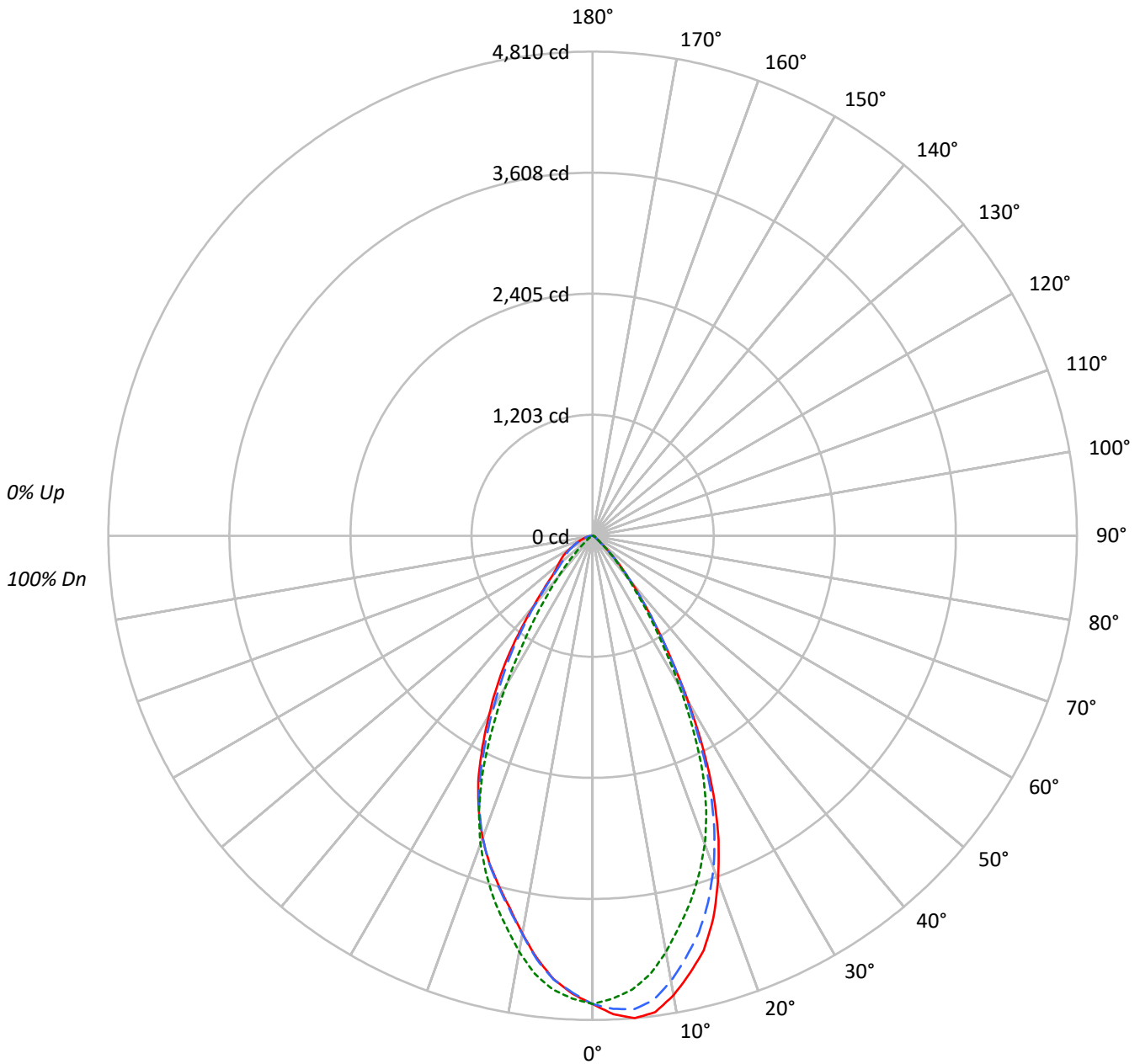
Lumens per Lamp: N/A
Luminaire Lumens: 4005.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	255012	255012	255012
5°	264709	249025	243396
10°	257939	233585	223309
15°	241908	213435	204212
20°	212369	190008	186380
25°	171760	156100	162536
30°	119411	108738	130083
35°	73595	66615	98176
40°	41649	37341	65201
45°	20227	19289	44493
50°	7701	7701	37824
55°	4215	4989	34904
60°	3081	3958	28605
65°	2607	3386	23427
70°	2244	2901	19298
75°	2118	2965	16585
80°	1263	2526	12028
85°	1258	5032	11385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.9	10.6
10°-20°	1070.3	26.7
20°-30°	1204.9	30.1
30°-40°	746.1	18.6
40°-50°	297.1	7.4
50°-60°	135.3	3.4
60°-70°	77.8	1.9
70°-80°	36.9	0.9
80°-90°	10.8	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°	2701.1	67.4
0°-40°	3447.2	86.1
0°-60°	3879.5	96.9
0°-90°	4005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4005.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4652	4652	4652	4652	4652	
5°	4810	4722	4525	4427	4423	453
15°	4262	4078	3761	3608	3598	1179
25°	2840	2763	2581	2645	2687	1276
35°	1100	1094	995	1387	1467	707
45°	261	261	249	542	574	221
55°	44	42	52	321	365	44
65°	20	18	26	179	181	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°	4651.8	4651.8	4651.8	4651.8	4651.8	4651.8	4651.8	4651.8	4651.8
2.5°	4758.1	4714.0	4703.9	4665.8	4601.6	4565.5	4543.4	4527.3	4555.4
5°	4810.3	4762.1	4722.0	4643.7	4525.3	4459.1	4427.0	4400.9	4423.0
7.5°	4772.2	4703.9	4649.7	4541.4	4390.9	4288.5	4244.4	4214.3	4234.3
10°	4633.7	4551.4	4489.2	4360.8	4196.2	4073.8	4019.6	3991.5	4011.6
12.5°	4453.1	4384.9	4290.5	4150.1	3973.5	3845.0	3804.9	3782.8	3790.8
15°	4262.4	4182.2	4077.8	3937.3	3760.7	3632.3	3608.2	3594.2	3598.2
17.5°	3985.5	3907.2	3816.9	3680.5	3517.9	3413.6	3413.6	3403.5	3409.5
20°	3640.3	3598.2	3509.9	3395.5	3257.0	3162.7	3192.8	3182.8	3194.8
22.5°	3267.1	3235.0	3158.7	3064.4	2948.0	2873.7	2940.0	2938.0	2954.0
25°	2839.6	2815.5	2763.4	2683.1	2580.7	2534.6	2645.0	2645.0	2687.1
27.5°	2368.0	2343.9	2307.8	2239.6	2155.3	2141.3	2303.8	2323.9	2370.0
30°	1886.4	1870.3	1850.3	1788.1	1717.8	1743.9	1968.7	2002.8	2055.0
32.5°	1456.9	1446.9	1440.9	1384.7	1322.5	1408.8	1665.6	1709.8	1762.0
35°	1099.7	1077.7	1093.7	1051.6	995.4	1103.7	1386.7	1424.8	1467.0
37.5°	810.7	794.7	808.7	778.6	728.5	846.9	1113.8	1137.9	1165.9
40°	582.0	567.9	580.0	561.9	521.8	632.1	873.0	899.0	911.1
42.5°	413.4	389.3	401.4	387.3	367.2	475.6	686.3	710.4	714.4
45°	260.9	252.9	260.9	252.9	248.8	353.2	541.8	563.9	573.9
47.5°	158.5	148.5	148.5	144.5	148.5	260.9	447.5	479.6	495.7
50°	90.3	86.3	84.3	82.3	90.3	204.7	387.3	423.4	443.5
52.5°	60.2	58.2	58.2	56.2	66.2	172.6	349.2	381.3	401.4
55°	44.1	42.1	42.1	42.1	52.2	148.5	321.1	347.2	365.2
57.5°	34.1	34.1	34.1	32.1	44.1	126.4	287.0	301.0	315.1
60°	28.1	26.1	26.1	26.1	36.1	108.4	246.8	252.9	260.9
62.5°	22.1	22.1	22.1	22.1	30.1	96.3	212.7	212.7	216.7
65°	20.1	18.1	18.1	18.1	26.1	84.3	178.6	176.6	180.6
67.5°	16.1	16.1	16.1	16.1	22.1	72.2	146.5	144.5	148.5
70°	14.0	14.0	14.0	14.0	18.1	60.2	118.4	116.4	120.4
72.5°	12.0	12.0	12.0	12.0	16.1	50.2	94.3	94.3	96.3
75°	10.0	10.0	10.0	10.0	14.0	38.1	76.3	76.3	78.3
77.5°	8.0	8.0	8.0	8.0	10.0	30.1	58.2	56.2	56.2
80°	4.0	6.0	6.0	6.0	8.0	22.1	42.1	38.1	38.1
82.5°	2.0	4.0	4.0	4.0	8.0	16.1	28.1	26.1	26.1
85°	2.0	2.0	2.0	6.0	8.0	12.0	18.1	18.1	18.1
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)