

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: P799719

Luminaire Tested: **LD6C45D010 EU6459027 6LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799719
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 EU6459027 6LBMDSWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

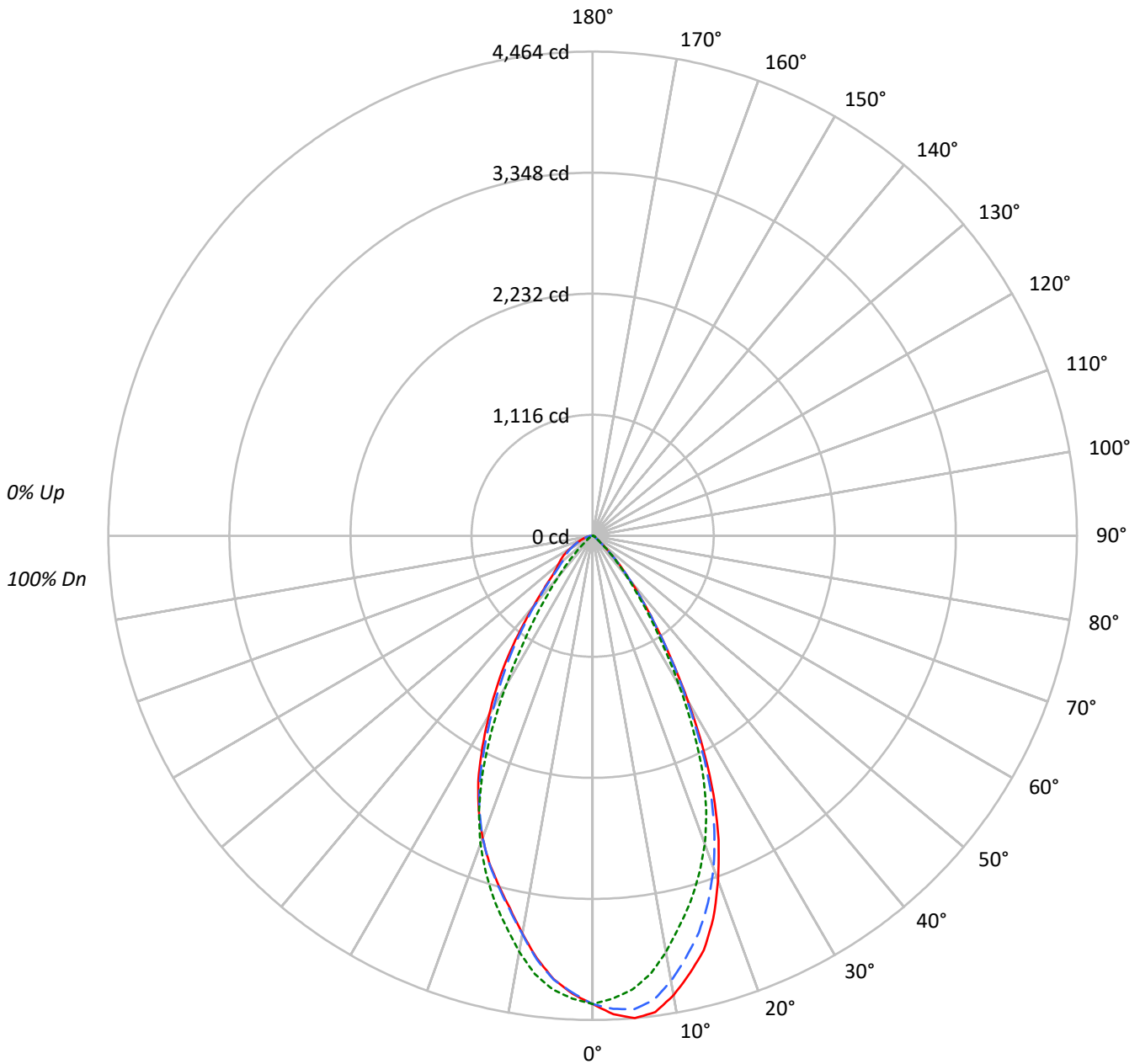
Lumens per Lamp: N/A
Luminaire Lumens: 3717.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	236670	236670	236670
5°	245674	231119	225891
10°	239391	216791	207250
15°	224513	198089	189524
20°	197102	176345	172979
25°	159408	144879	150849
30°	110821	100921	120727
35°	68302	61824	91116
40°	38651	34651	60513
45°	18769	17901	41299
50°	7147	7147	35103
55°	3919	4626	32400
60°	2862	3673	26544
65°	2413	3139	21740
70°	2084	2693	17904
75°	1970	2754	15377
80°	1168	2336	11176
85°	1195	4655	10567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.2	10.6
10°-20°	993.4	26.7
20°-30°	1118.3	30.1
30°-40°	692.4	18.6
40°-50°	275.7	7.4
50°-60°	125.5	3.4
60°-70°	72.2	1.9
70°-80°	34.3	0.9
80°-90°	10.0	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°	2506.8	67.4
0°-40°	3199.3	86.1
0°-60°	3600.6	96.9
0°-90°	3717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3717.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4317	4317	4317	4317	4317	
5°	4464	4382	4200	4109	4105	420
15°	3956	3785	3490	3349	3339	1094
25°	2635	2565	2395	2455	2494	1185
35°	1021	1015	924	1287	1362	656
45°	242	242	231	503	533	205
55°	41	39	48	298	339	41
65°	19	17	24	166	168	18
75°	9	9	13	71	73	10
85°	2	2	7	17	17	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°	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2
2.5°	4416.0	4375.0	4365.7	4330.3	4270.7	4237.2	4216.7	4201.8	4227.8
5°	4464.4	4419.7	4382.4	4309.8	4199.9	4138.4	4108.6	4084.4	4104.9
7.5°	4429.0	4365.7	4315.4	4214.8	4075.1	3980.1	3939.2	3911.2	3929.9
10°	4300.5	4224.1	4166.4	4047.2	3894.5	3780.9	3730.6	3704.5	3723.1
12.5°	4132.9	4069.5	3982.0	3851.6	3687.7	3568.5	3531.3	3510.8	3518.2
15°	3955.9	3881.4	3784.6	3654.2	3490.3	3371.1	3348.8	3335.7	3339.4
17.5°	3698.9	3626.3	3542.5	3415.8	3264.9	3168.1	3168.1	3158.8	3164.4
20°	3378.6	3339.4	3257.5	3151.3	3022.8	2935.3	2963.2	2953.9	2965.1
22.5°	3032.1	3002.3	2931.6	2844.0	2736.0	2667.1	2728.5	2726.7	2741.6
25°	2635.4	2613.1	2564.6	2490.1	2395.2	2352.3	2454.8	2454.8	2493.9
27.5°	2197.7	2175.4	2141.9	2078.5	2000.3	1987.3	2138.1	2156.8	2199.6
30°	1750.7	1735.8	1717.2	1659.5	1594.3	1618.5	1827.1	1858.8	1907.2
32.5°	1352.2	1342.9	1337.3	1285.1	1227.4	1307.5	1545.9	1586.8	1635.3
35°	1020.6	1000.2	1015.1	975.9	923.8	1024.4	1287.0	1322.4	1361.5
37.5°	752.4	737.5	750.6	722.6	676.1	786.0	1033.7	1056.0	1082.1
40°	540.1	527.1	538.3	521.5	484.2	586.7	810.2	834.4	845.6
42.5°	383.7	361.3	372.5	359.5	340.8	441.4	637.0	659.3	663.0
45°	242.1	234.7	242.1	234.7	230.9	327.8	502.9	523.4	532.7
47.5°	147.1	137.8	137.8	134.1	137.8	242.1	415.3	445.1	460.0
50°	83.8	80.1	78.2	76.4	83.8	190.0	359.5	393.0	411.6
52.5°	55.9	54.0	54.0	52.1	61.5	160.2	324.1	353.9	372.5
55°	41.0	39.1	39.1	39.1	48.4	137.8	298.0	322.2	339.0
57.5°	31.7	31.7	31.7	29.8	41.0	117.3	266.3	279.4	292.4
60°	26.1	24.2	24.2	24.2	33.5	100.6	229.1	234.7	242.1
62.5°	20.5	20.5	20.5	20.5	27.9	89.4	197.4	197.4	201.1
65°	18.6	16.8	16.8	16.8	24.2	78.2	165.8	163.9	167.6
67.5°	14.9	14.9	14.9	14.9	20.5	67.0	136.0	134.1	137.8
70°	13.0	13.0	13.0	13.0	16.8	55.9	109.9	108.0	111.7
72.5°	11.2	11.2	11.2	11.2	14.9	46.6	87.5	87.5	89.4
75°	9.3	9.3	9.3	9.3	13.0	35.4	70.8	70.8	72.6
77.5°	7.4	7.4	7.4	7.4	9.3	27.9	54.0	52.1	52.1
80°	3.7	5.6	5.6	5.6	7.4	20.5	39.1	35.4	35.4
82.5°	1.9	3.7	3.7	3.7	7.4	14.9	26.1	24.2	24.2
85°	1.9	1.9	1.9	5.6	7.4	11.2	16.8	16.8	16.8
87.5°	0.0	1.9	3.7	7.4	9.3	9.3	11.2	9.3	9.3
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)