

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: P799749

Luminaire Tested: **LD6C45D010 EU6459040 6LBMDDWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C45D010 EU6459040 6LBMDDWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

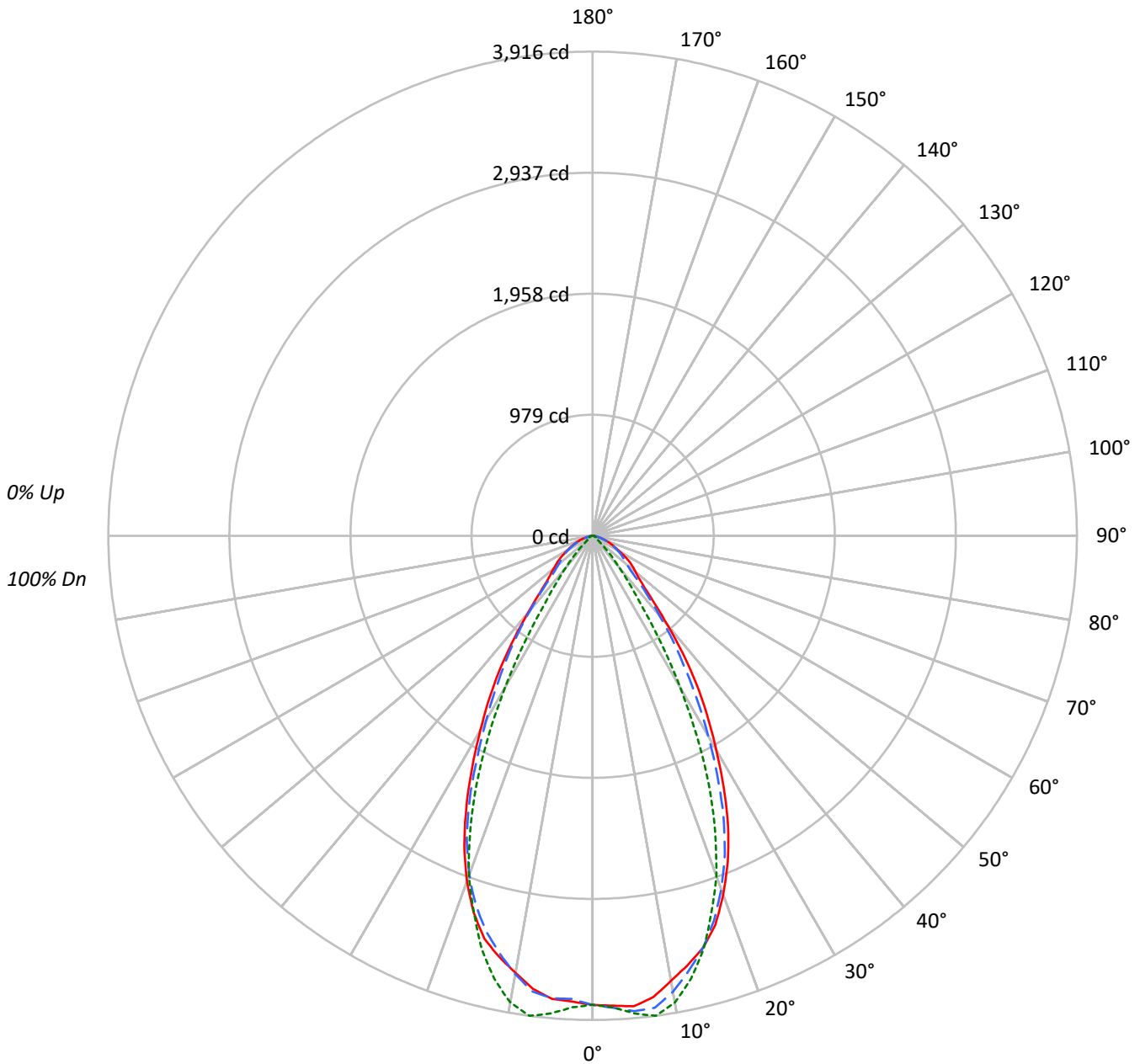
Lumens per Lamp: N/A
Luminaire Lumens: 3863.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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			
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	208015	208015	208015
5°	210191	213377	206895
10°	203381	213373	199835
15°	195745	196511	191585
20°	180155	170698	173399
25°	156789	134609	146047
30°	126450	89431	114720
35°	98036	46110	86150
40°	67262	23895	58009
45°	46090	11970	40702
50°	38353	5100	34899
55°	34493	4425	31177
60°	27300	4232	26029
65°	22532	3762	22285
70°	18256	3398	18256
75°	13492	3685	14318
80°	7924	3062	8524
85°	6101	3648	6101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.2	9.4
10°-20°	948.0	24.5
20°-30°	1082.1	28.0
30°-40°	717.6	18.6
40°-50°	346.1	9.0
50°-60°	212.9	5.5
60°-70°	128.8	3.3
70°-80°	54.2	1.4
80°-90°	12.0	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°	2391.3	61.9
0°-40°	3109.0	80.5
0°-60°	3668.0	95.0
0°-90°	3863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3863.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3794	3794	3794	3794	3794	
5°	3820	3860	3878	3754	3760	359
15°	3449	3449	3462	3316	3376	961
25°	2592	2505	2225	2355	2414	1175
35°	1465	1291	689	1204	1287	906
45°	594	521	154	486	525	485
55°	361	293	46	293	326	317
65°	174	166	29	156	172	174
75°	64	64	17	60	68	68
85°	10	14	6	10	10	12
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°	3794.5	3794.5	3794.5	3794.5	3794.5	3794.5	3794.5	3794.5	3794.5
2.5°	3804.1	3809.9	3821.5	3823.4	3817.6	3781.0	3750.1	3761.7	3771.3
5°	3819.6	3831.2	3860.1	3887.1	3877.5	3815.7	3754.0	3752.0	3759.7
7.5°	3763.6	3790.6	3850.5	3918.0	3916.1	3809.9	3719.2	3696.1	3696.1
10°	3653.6	3678.7	3744.3	3835.0	3833.1	3699.9	3599.6	3588.0	3589.9
12.5°	3555.2	3566.7	3599.6	3671.0	3671.0	3539.7	3462.5	3474.1	3489.5
15°	3449.0	3456.7	3449.0	3472.2	3462.5	3354.4	3315.8	3352.5	3375.7
17.5°	3298.5	3302.3	3261.8	3230.9	3194.2	3126.7	3136.3	3190.4	3196.2
20°	3088.1	3113.2	3039.8	2960.7	2926.0	2862.3	2916.3	2976.1	2972.3
22.5°	2856.5	2885.4	2790.9	2659.6	2588.2	2563.1	2659.6	2713.7	2711.7
25°	2592.1	2613.3	2505.2	2321.9	2225.4	2221.5	2354.7	2410.6	2414.5
27.5°	2294.8	2302.6	2181.0	1941.6	1822.0	1850.9	2018.8	2096.0	2105.7
30°	1997.6	1993.7	1868.3	1571.1	1412.8	1491.9	1717.7	1802.7	1812.3
32.5°	1725.5	1713.9	1571.1	1215.9	1026.8	1144.5	1441.8	1530.5	1546.0
35°	1464.9	1445.6	1291.2	899.4	689.0	864.7	1204.4	1281.6	1287.3
37.5°	1192.8	1183.1	1061.5	673.6	480.6	656.2	982.4	1038.4	1032.6
40°	939.9	939.9	839.6	499.9	333.9	488.3	777.8	828.0	810.6
42.5°	737.3	746.9	662.0	368.6	237.4	362.9	615.7	662.0	642.7
45°	594.5	594.5	521.1	274.1	154.4	270.2	486.4	528.8	525.0
47.5°	503.7	496.0	422.7	200.7	84.9	202.7	409.2	461.3	459.4
50°	449.7	438.1	362.9	158.3	59.8	167.9	359.0	407.2	409.2
52.5°	407.2	389.9	326.2	140.9	52.1	146.7	326.2	364.8	364.8
55°	360.9	351.3	293.4	125.5	46.3	131.2	293.4	328.1	326.2
57.5°	304.9	303.0	262.5	113.9	42.5	115.8	262.5	283.7	276.0
60°	249.0	256.7	227.7	102.3	38.6	104.2	223.9	241.3	237.4
62.5°	208.4	218.1	198.8	90.7	32.8	92.6	189.1	206.5	202.7
65°	173.7	181.4	166.0	77.2	29.0	77.2	156.3	171.8	171.8
67.5°	142.8	148.6	137.0	63.7	25.1	63.7	127.4	140.9	142.8
70°	113.9	117.7	108.1	50.2	21.2	52.1	100.4	113.9	113.9
72.5°	88.8	90.7	84.9	40.5	19.3	40.5	77.2	88.8	88.8
75°	63.7	67.6	63.7	30.9	17.4	30.9	59.8	65.6	67.6
77.5°	36.7	46.3	46.3	25.1	13.5	23.2	42.5	44.4	44.4
80°	25.1	29.0	32.8	17.4	9.7	17.4	27.0	29.0	27.0
82.5°	17.4	19.3	19.3	11.6	7.7	11.6	17.4	19.3	17.4
85°	9.7	13.5	13.5	9.7	5.8	7.7	9.7	11.6	9.7
87.5°	5.8	7.7	9.7	7.7	5.8	5.8	5.8	5.8	3.9
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)