

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: P799757

Luminaire Tested: **LD6C45D010 EU6459040 6LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799757
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 6LBMDSWMW
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

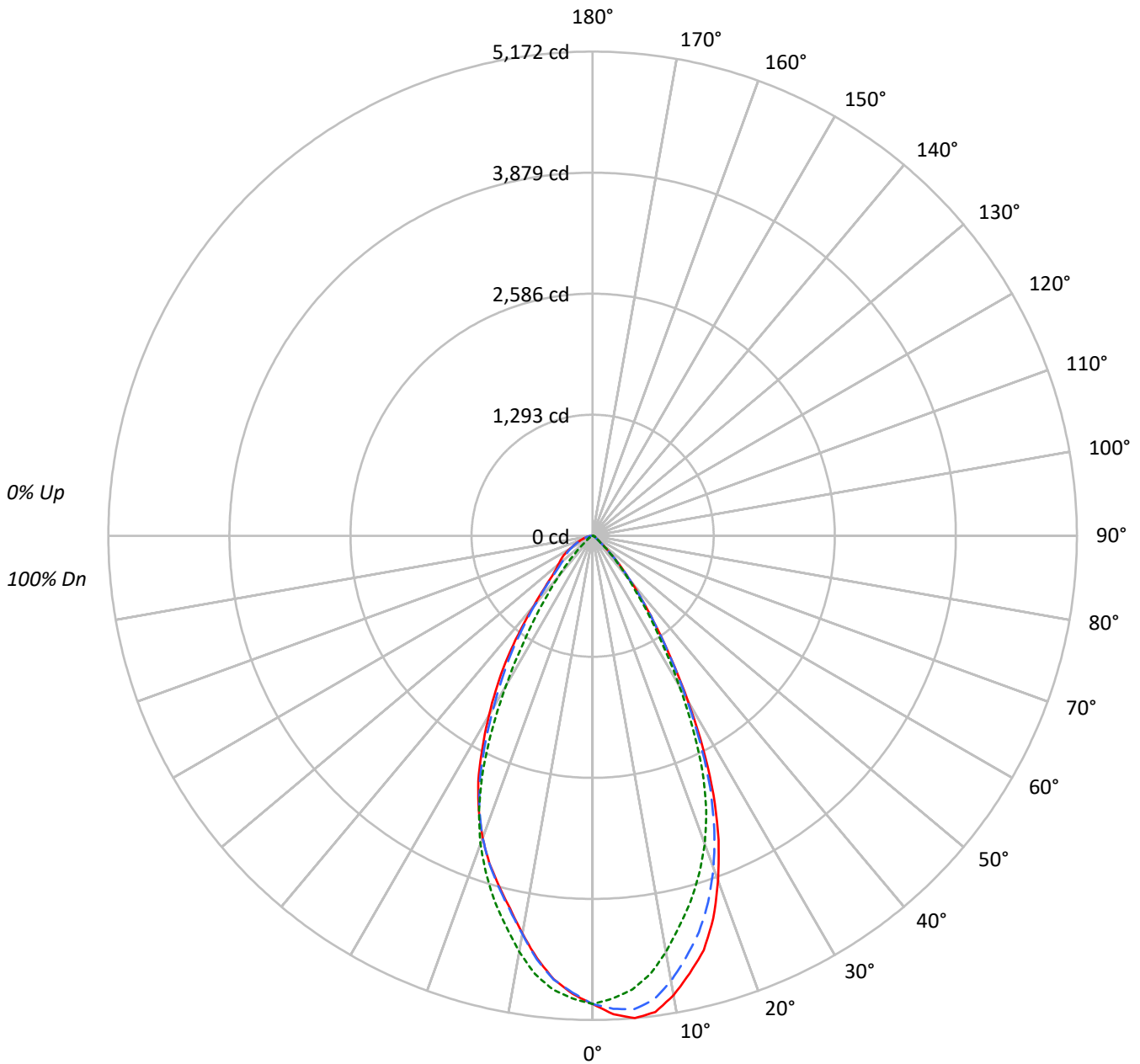
Lumens per Lamp: N/A
Luminaire Lumens: 4306.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	274178	274178	274178
5°	284602	267741	261688
10°	277322	251142	240092
15°	260092	229479	219559
20°	228331	204289	200387
25°	184668	167834	174754
30°	128387	116910	139857
35°	79130	71621	105551
40°	44777	40147	70103
45°	21746	20739	47842
50°	8281	8281	40664
55°	4540	5362	37533
60°	3311	4254	30754
65°	2802	3632	25191
70°	2420	3109	20757
75°	2288	3198	17813
80°	1357	2715	12944
85°	1384	5409	12202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.9	10.6
10°-20°	1150.8	26.7
20°-30°	1295.4	30.1
30°-40°	802.2	18.6
40°-50°	319.5	7.4
50°-60°	145.4	3.4
60°-70°	83.6	1.9
70°-80°	39.7	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°	2904.1	67.4
0°-40°	3706.2	86.1
0°-60°	4171.1	96.9
0°-90°	4306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4306.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5001	5001	5001	5001	5001	
5°	5172	5077	4865	4760	4755	487
15°	4583	4384	4043	3879	3869	1268
25°	3053	2971	2775	2844	2889	1372
35°	1182	1176	1070	1491	1577	760
45°	280	280	268	583	617	238
55°	48	45	56	345	393	47
65°	22	19	28	192	194	21
75°	11	11	15	82	84	11
85°	2	2	9	19	19	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°	5001.4	5001.4	5001.4	5001.4	5001.4	5001.4	5001.4	5001.4	5001.4
2.5°	5115.7	5068.3	5057.5	5016.5	4947.4	4908.6	4884.9	4867.6	4897.8
5°	5171.8	5120.0	5076.9	4992.7	4865.4	4794.2	4759.7	4731.7	4755.4
7.5°	5130.8	5057.5	4999.2	4882.7	4720.9	4610.8	4563.4	4531.0	4552.6
10°	4981.9	4893.5	4826.6	4688.5	4511.6	4380.0	4321.7	4291.5	4313.1
12.5°	4787.8	4714.4	4613.0	4462.0	4272.1	4134.0	4090.8	4067.1	4075.7
15°	4582.8	4496.5	4384.3	4233.3	4043.4	3905.3	3879.4	3864.3	3868.6
17.5°	4285.0	4200.9	4103.8	3957.1	3782.3	3670.1	3670.1	3659.3	3665.8
20°	3913.9	3868.6	3773.7	3650.7	3501.8	3400.4	3432.8	3422.0	3434.9
22.5°	3512.6	3478.1	3396.1	3294.7	3169.5	3089.7	3160.9	3158.8	3176.0
25°	3053.0	3027.1	2971.0	2884.7	2774.7	2725.1	2843.7	2843.7	2889.1
27.5°	2546.0	2520.1	2481.3	2407.9	2317.3	2302.2	2476.9	2498.5	2548.1
30°	2028.2	2010.9	1989.3	1922.4	1846.9	1875.0	2116.6	2153.3	2209.4
32.5°	1566.4	1555.6	1549.2	1488.8	1421.9	1514.6	1790.8	1838.3	1894.4
35°	1182.4	1158.6	1175.9	1130.6	1070.2	1186.7	1490.9	1531.9	1577.2
37.5°	871.7	854.4	869.5	837.2	783.2	910.5	1197.5	1223.4	1253.6
40°	625.7	610.6	623.6	604.1	561.0	679.7	938.6	966.6	979.6
42.5°	444.5	418.6	431.5	416.4	394.8	511.4	737.9	763.8	768.1
45°	280.5	271.9	280.5	271.9	267.5	379.7	582.6	606.3	617.1
47.5°	170.5	159.7	159.7	155.3	159.7	280.5	481.1	515.7	532.9
50°	97.1	92.8	90.6	88.5	97.1	220.1	416.4	455.3	476.8
52.5°	64.7	62.6	62.6	60.4	71.2	185.6	375.4	409.9	431.5
55°	47.5	45.3	45.3	45.3	56.1	159.7	345.2	373.3	392.7
57.5°	36.7	36.7	36.7	34.5	47.5	135.9	308.5	323.6	338.7
60°	30.2	28.0	28.0	28.0	38.8	116.5	265.4	271.9	280.5
62.5°	23.7	23.7	23.7	23.7	32.4	103.6	228.7	228.7	233.0
65°	21.6	19.4	19.4	19.4	28.0	90.6	192.0	189.9	194.2
67.5°	17.3	17.3	17.3	17.3	23.7	77.7	157.5	155.3	159.7
70°	15.1	15.1	15.1	15.1	19.4	64.7	127.3	125.1	129.5
72.5°	12.9	12.9	12.9	12.9	17.3	53.9	101.4	101.4	103.6
75°	10.8	10.8	10.8	10.8	15.1	41.0	82.0	82.0	84.1
77.5°	8.6	8.6	8.6	8.6	10.8	32.4	62.6	60.4	60.4
80°	4.3	6.5	6.5	6.5	8.6	23.7	45.3	41.0	41.0
82.5°	2.2	4.3	4.3	4.3	8.6	17.3	30.2	28.0	28.0
85°	2.2	2.2	2.2	6.5	8.6	12.9	19.4	19.4	19.4
87.5°	0.0	2.2	4.3	8.6	10.8	10.8	12.9	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)