

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: P799686

Luminaire Tested: **LD6C40D010 EU6409035 6LBMDSWWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799686  
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: LD6C40D010 EU6409035 6LBMDSWWH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

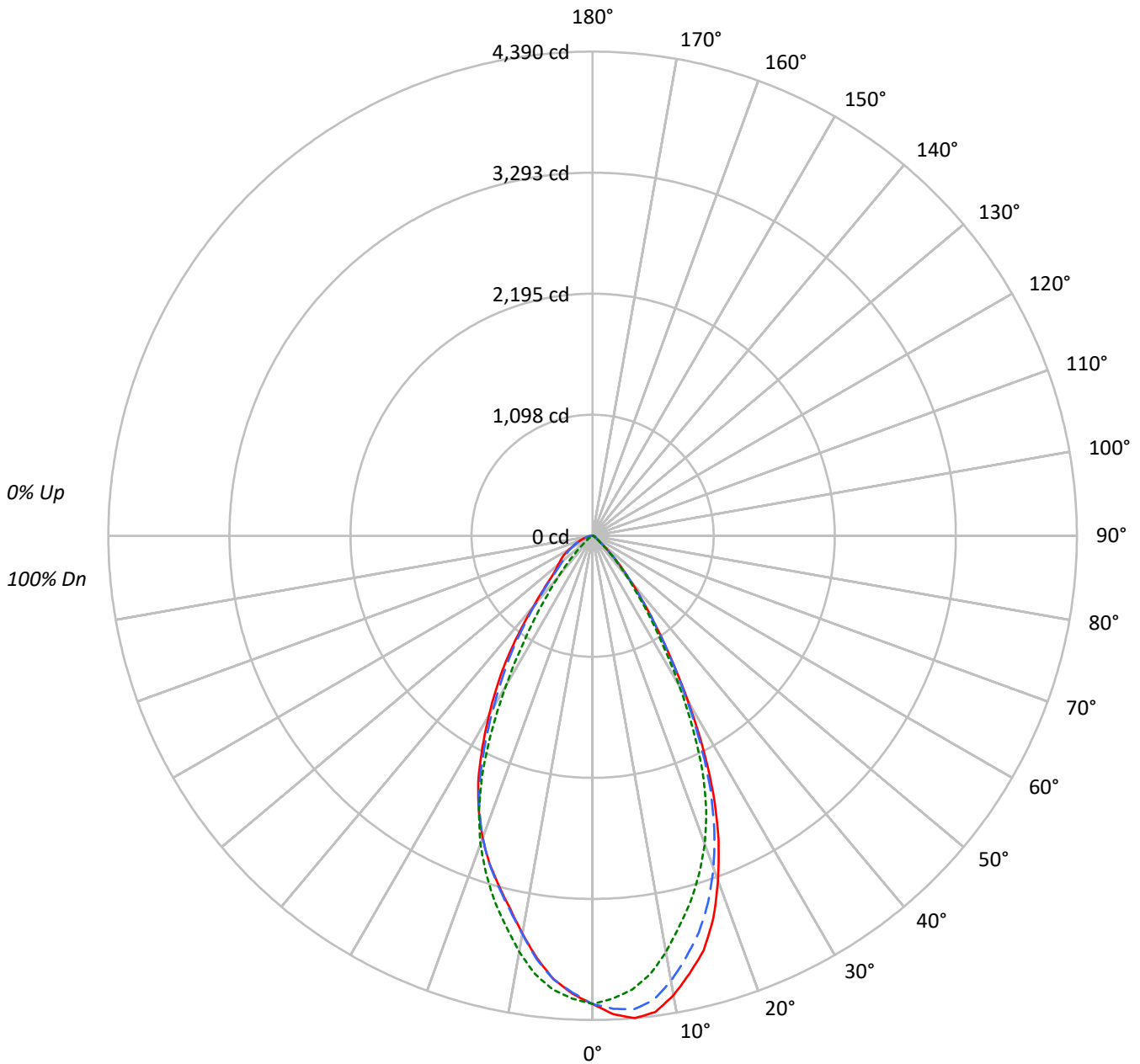
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3655.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 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): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	232723	232723	232723
5°	241574	227267	222127
10°	235400	213172	203793
15°	220767	194785	186363
20°	193812	173405	170091
25°	156753	142460	148333
30°	108972	99237	118714
35°	67164	60793	89597
40°	38007	34078	59504
45°	18459	17606	40609
50°	7027	7027	34515
55°	3852	4549	31855
60°	2807	3618	26105
65°	2374	3087	21377
70°	2052	2645	17615
75°	1949	2711	15123
80°	1168	2305	10986
85°	1132	4592	10378



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.6	10.6
10°-20°	976.8	26.7
20°-30°	1099.6	30.1
30°-40°	680.9	18.6
40°-50°	271.2	7.4
50°-60°	123.4	3.4
60°-70°	71.0	1.9
70°-80°	33.7	0.9
80°-90°	9.8	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°	2465.0	67.4
0°-40°	3145.9	86.1
0°-60°	3540.5	96.9
0°-90°	3655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4245	4245	4245	4245	4245	
5°	4390	4309	4130	4040	4036	413
15°	3890	3721	3432	3293	3284	1076
25°	2592	2522	2355	2414	2452	1165
35°	1004	998	908	1266	1339	645
45°	238	238	227	494	524	202
55°	40	38	48	293	333	40
65°	18	16	24	163	165	18
75°	9	9	13	70	71	9
85°	2	2	7	16	16	1
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°	4245.2	4245.2	4245.2	4245.2	4245.2	4245.2	4245.2	4245.2	4245.2
2.5°	4342.3	4302.0	4292.9	4258.1	4199.5	4166.5	4146.3	4131.7	4157.3
5°	4389.9	4346.0	4309.3	4237.9	4129.9	4069.4	4040.1	4016.3	4036.5
7.5°	4355.1	4292.9	4243.4	4144.5	4007.2	3913.7	3873.5	3846.0	3864.3
10°	4228.8	4153.7	4096.9	3979.7	3829.5	3717.8	3668.3	3642.7	3661.0
12.5°	4063.9	4001.7	3915.6	3787.4	3626.2	3509.0	3472.4	3452.2	3459.6
15°	3889.9	3816.7	3721.4	3593.2	3432.1	3314.9	3292.9	3280.1	3283.7
17.5°	3637.2	3565.8	3483.4	3358.8	3210.5	3115.2	3115.2	3106.1	3111.6
20°	3322.2	3283.7	3203.2	3098.8	2972.4	2886.3	2913.8	2904.6	2915.6
22.5°	2981.6	2952.3	2882.7	2796.6	2690.4	2622.6	2683.0	2681.2	2695.9
25°	2591.5	2569.5	2521.9	2448.6	2355.2	2313.1	2413.8	2413.8	2452.3
27.5°	2161.1	2139.1	2106.1	2043.9	1966.9	1954.1	2102.5	2120.8	2162.9
30°	1721.5	1706.9	1688.6	1631.8	1567.7	1591.5	1796.6	1827.8	1875.4
32.5°	1329.6	1320.5	1315.0	1263.7	1206.9	1285.7	1520.1	1560.4	1608.0
35°	1003.6	983.5	998.1	959.7	908.4	1007.3	1265.5	1300.3	1338.8
37.5°	739.9	725.2	738.1	710.6	664.8	772.9	1016.4	1038.4	1064.1
40°	531.1	518.3	529.3	512.8	476.2	576.9	796.7	820.5	831.5
42.5°	377.3	355.3	366.3	353.5	335.2	434.0	626.3	648.3	652.0
45°	238.1	230.8	238.1	230.8	227.1	322.3	494.5	514.6	523.8
47.5°	144.7	135.5	135.5	131.9	135.5	238.1	408.4	437.7	452.4
50°	82.4	78.8	76.9	75.1	82.4	186.8	353.5	386.4	404.7
52.5°	54.9	53.1	53.1	51.3	60.4	157.5	318.7	348.0	366.3
55°	40.3	38.5	38.5	38.5	47.6	135.5	293.0	316.8	333.3
57.5°	31.1	31.1	31.1	29.3	40.3	115.4	261.9	274.7	287.5
60°	25.6	23.8	23.8	23.8	33.0	98.9	225.3	230.8	238.1
62.5°	20.1	20.1	20.1	20.1	27.5	87.9	194.1	194.1	197.8
65°	18.3	16.5	16.5	16.5	23.8	76.9	163.0	161.2	164.8
67.5°	14.7	14.7	14.7	14.7	20.1	65.9	133.7	131.9	135.5
70°	12.8	12.8	12.8	12.8	16.5	54.9	108.1	106.2	109.9
72.5°	11.0	11.0	11.0	11.0	14.7	45.8	86.1	86.1	87.9
75°	9.2	9.2	9.2	9.2	12.8	34.8	69.6	69.6	71.4
77.5°	7.3	7.3	7.3	7.3	9.2	27.5	53.1	51.3	51.3
80°	3.7	5.5	5.5	5.5	7.3	20.1	38.5	34.8	34.8
82.5°	1.8	3.7	3.7	3.7	7.3	14.7	25.6	23.8	23.8
85°	1.8	1.8	1.8	5.5	7.3	11.0	16.5	16.5	16.5
87.5°	0.0	1.8	3.7	7.3	9.2	9.2	11.0	9.2	9.2
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)