

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: P799674

Luminaire Tested: **LD6C40D010 EU6409030 6LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799674
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 EU6409030 6LBMDSWWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

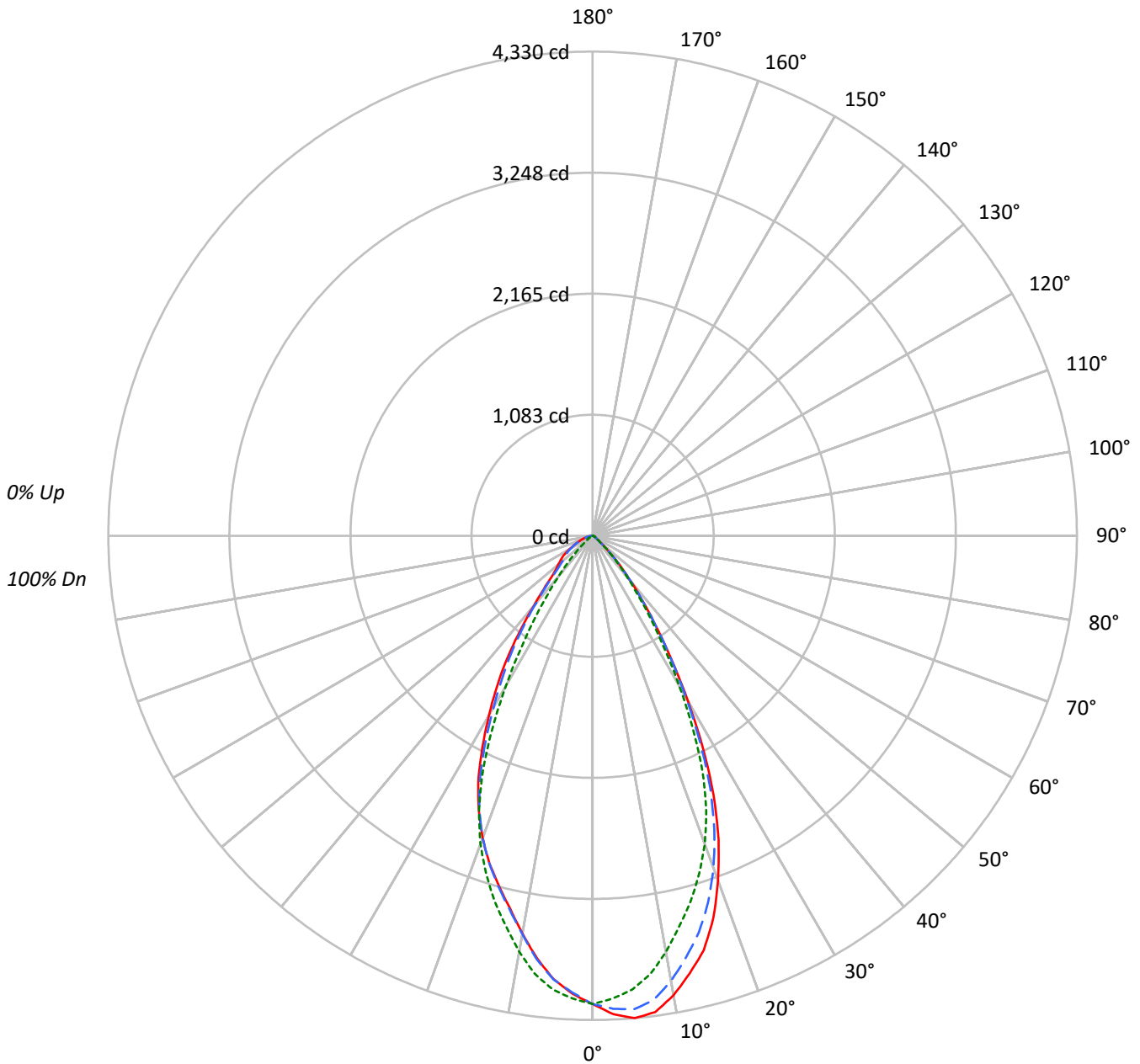
Lumens per Lamp: N/A
Luminaire Lumens: 3605.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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				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°	229543	229543	229543
5°	238273	224157	219084
10°	232177	210256	201004
15°	217748	192118	183815
20°	191163	171031	167764
25°	154606	140512	146301
30°	107485	97882	117088
35°	66247	59963	88372
40°	37485	33613	58689
45°	18203	17366	40051
50°	6934	6934	34046
55°	3794	4492	31425
60°	2774	3563	25744
65°	2348	3048	21092
70°	2020	2613	17375
75°	1906	2669	14911
80°	1137	2273	10828
85°	1132	4529	10253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.3	10.6
10°-20°	963.4	26.7
20°-30°	1084.6	30.1
30°-40°	671.6	18.6
40°-50°	267.4	7.4
50°-60°	121.8	3.4
60°-70°	70.0	1.9
70°-80°	33.2	0.9
80°-90°	9.7	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°	2431.3	67.4
0°-40°	3102.9	86.1
0°-60°	3492.1	96.9
0°-90°	3605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3605.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4187	4187	4187	4187	4187	
5°	4330	4250	4073	3985	3981	408
15°	3837	3670	3385	3248	3239	1061
25°	2556	2487	2323	2381	2419	1149
35°	990	984	896	1248	1320	636
45°	235	235	224	488	517	199
55°	40	38	47	289	329	39
65°	18	16	24	161	163	18
75°	9	9	13	69	70	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°	4187.2	4187.2	4187.2	4187.2	4187.2	4187.2	4187.2	4187.2	4187.2
2.5°	4282.9	4243.2	4234.1	4199.8	4142.0	4109.5	4089.6	4075.2	4100.5
5°	4329.9	4286.5	4250.4	4179.9	4073.4	4013.8	3984.8	3961.4	3981.2
7.5°	4295.5	4234.1	4185.4	4087.8	3952.3	3860.2	3820.5	3793.4	3811.4
10°	4170.9	4096.8	4040.8	3925.2	3777.1	3666.9	3618.2	3592.9	3610.9
12.5°	4008.3	3946.9	3862.0	3735.6	3576.6	3461.0	3424.9	3405.0	3412.2
15°	3836.7	3764.5	3670.5	3544.1	3385.1	3269.5	3247.9	3235.2	3238.8
17.5°	3587.4	3517.0	3435.7	3312.9	3166.6	3072.6	3072.6	3063.6	3069.0
20°	3276.8	3238.8	3159.3	3056.4	2931.7	2846.8	2873.9	2864.9	2875.7
22.5°	2940.8	2911.9	2843.2	2758.3	2653.6	2586.7	2646.3	2644.5	2659.0
25°	2556.0	2534.3	2487.4	2415.1	2323.0	2281.4	2380.8	2380.8	2418.7
27.5°	2131.5	2109.8	2077.3	2015.9	1940.0	1927.4	2073.7	2091.8	2133.3
30°	1698.0	1683.5	1665.5	1609.5	1546.3	1569.7	1772.0	1802.8	1849.7
32.5°	1311.4	1302.4	1297.0	1246.4	1190.4	1268.1	1499.3	1539.0	1586.0
35°	989.9	970.0	984.5	946.5	896.0	993.5	1248.2	1282.5	1320.5
37.5°	729.8	715.3	728.0	700.9	655.7	762.3	1002.5	1024.2	1049.5
40°	523.8	511.2	522.0	505.8	469.7	569.0	785.8	809.3	820.1
42.5°	372.1	350.4	361.3	348.6	330.6	428.1	617.8	639.5	643.1
45°	234.8	227.6	234.8	227.6	224.0	317.9	487.7	507.6	516.6
47.5°	142.7	133.7	133.7	130.1	133.7	234.8	402.8	431.7	446.2
50°	81.3	77.7	75.9	74.1	81.3	184.2	348.6	381.1	399.2
52.5°	54.2	52.4	52.4	50.6	59.6	155.3	314.3	343.2	361.3
55°	39.7	37.9	37.9	37.9	47.0	133.7	289.0	312.5	328.8
57.5°	30.7	30.7	30.7	28.9	39.7	113.8	258.3	271.0	283.6
60°	25.3	23.5	23.5	23.5	32.5	97.5	222.2	227.6	234.8
62.5°	19.9	19.9	19.9	19.9	27.1	86.7	191.5	191.5	195.1
65°	18.1	16.3	16.3	16.3	23.5	75.9	160.8	159.0	162.6
67.5°	14.5	14.5	14.5	14.5	19.9	65.0	131.9	130.1	133.7
70°	12.6	12.6	12.6	12.6	16.3	54.2	106.6	104.8	108.4
72.5°	10.8	10.8	10.8	10.8	14.5	45.2	84.9	84.9	86.7
75°	9.0	9.0	9.0	9.0	12.6	34.3	68.6	68.6	70.4
77.5°	7.2	7.2	7.2	7.2	9.0	27.1	52.4	50.6	50.6
80°	3.6	5.4	5.4	5.4	7.2	19.9	37.9	34.3	34.3
82.5°	1.8	3.6	3.6	3.6	7.2	14.5	25.3	23.5	23.5
85°	1.8	1.8	1.8	5.4	7.2	10.8	16.3	16.3	16.3
87.5°	0.0	1.8	3.6	7.2	9.0	9.0	10.8	9.0	9.0
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)