

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: P799708

Luminaire Tested: **LD6C40D010 EU6409050 6LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799708
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 EU6409050 6LBMDSWLI
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

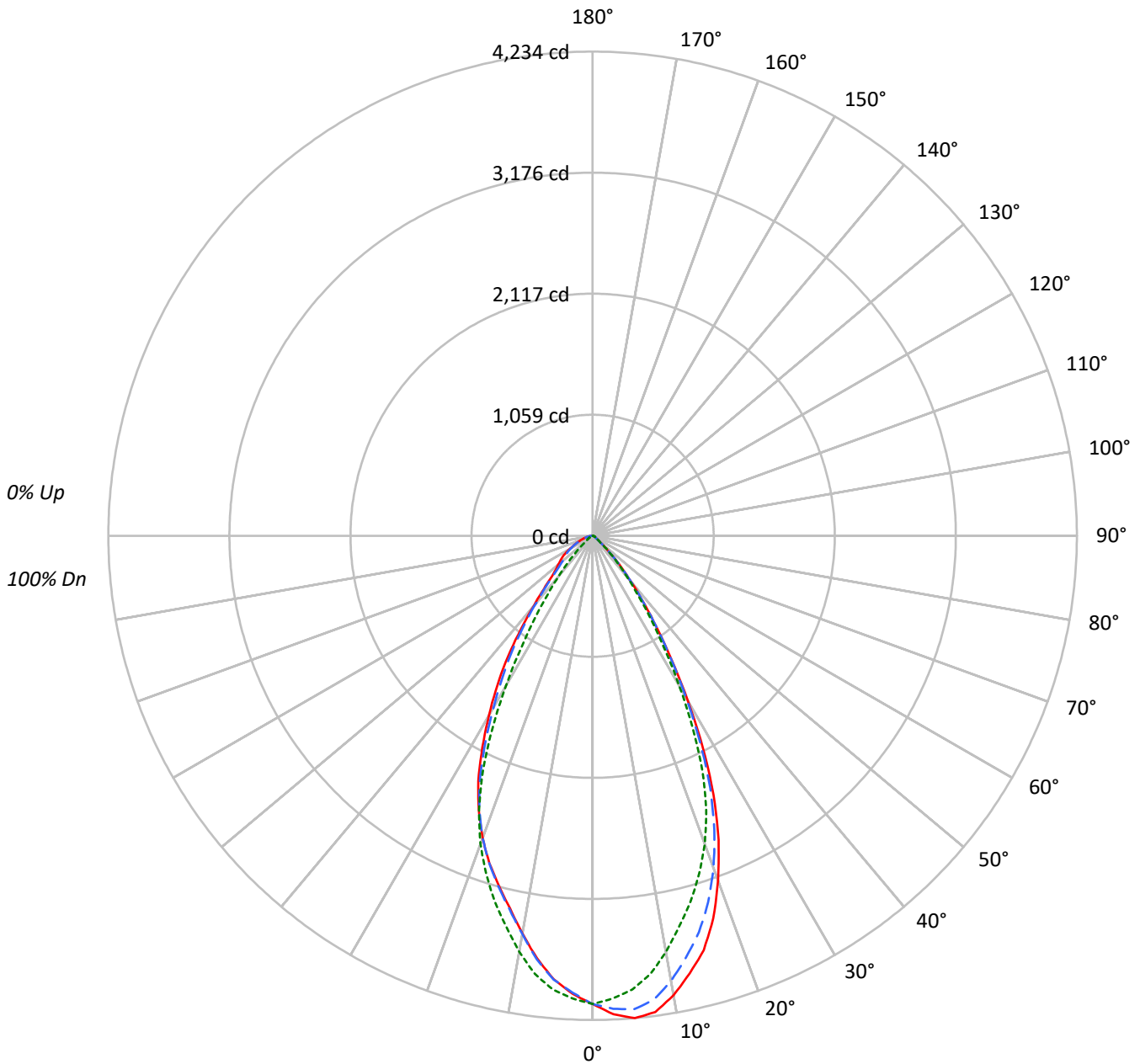
Lumens per Lamp: N/A
Luminaire Lumens: 3525.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	224445	224445	224445
5°	232984	219183	214225
10°	227022	205591	196545
15°	212918	187856	179734
20°	186916	167239	164042
25°	151176	137391	143059
30°	105098	95705	114492
35°	64775	58631	86411
40°	36654	32862	57386
45°	17800	16979	39167
50°	6780	6780	33287
55°	3718	4387	30728
60°	2708	3487	25173
65°	2296	2983	20625
70°	1988	2549	16990
75°	1864	2626	14594
80°	1105	2241	10607
85°	1132	4466	10001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.8	10.6
10°-20°	942.0	26.7
20°-30°	1060.5	30.1
30°-40°	656.7	18.6
40°-50°	261.5	7.4
50°-60°	119.1	3.4
60°-70°	68.4	1.9
70°-80°	32.5	0.9
80°-90°	9.5	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°	2377.4	67.4
0°-40°	3034.0	86.1
0°-60°	3414.6	96.9
0°-90°	3525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3525.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4094	4094	4094	4094	4094	
5°	4234	4156	3983	3896	3893	399
15°	3752	3589	3310	3176	3167	1038
25°	2499	2432	2271	2328	2365	1123
35°	968	963	876	1220	1291	622
45°	230	230	219	477	505	195
55°	39	37	46	283	322	39
65°	18	16	23	157	159	17
75°	9	9	12	67	69	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°	4094.2	4094.2	4094.2	4094.2	4094.2	4094.2	4094.2	4094.2	4094.2
2.5°	4187.9	4149.0	4140.2	4106.6	4050.1	4018.3	3998.9	3984.7	4009.5
5°	4233.8	4191.4	4156.1	4087.2	3983.0	3924.7	3896.4	3873.5	3892.9
7.5°	4200.2	4140.2	4092.5	3997.1	3864.6	3774.5	3735.7	3709.2	3726.9
10°	4078.3	4005.9	3951.2	3838.1	3693.3	3585.6	3537.9	3513.1	3530.8
12.5°	3919.4	3859.3	3776.3	3652.7	3497.2	3384.2	3348.9	3329.4	3336.5
15°	3751.6	3680.9	3589.1	3465.4	3310.0	3197.0	3175.8	3163.4	3166.9
17.5°	3507.8	3439.0	3359.5	3239.4	3096.3	3004.4	3004.4	2995.6	3000.9
20°	3204.0	3166.9	3089.2	2988.5	2866.7	2783.7	2810.2	2801.3	2811.9
22.5°	2875.5	2847.2	2780.1	2697.1	2594.7	2529.3	2587.6	2585.8	2600.0
25°	2499.3	2478.1	2432.2	2361.5	2271.4	2230.8	2328.0	2328.0	2365.1
27.5°	2084.2	2063.0	2031.2	1971.2	1897.0	1884.6	2027.7	2045.4	2086.0
30°	1660.3	1646.2	1628.5	1573.8	1511.9	1534.9	1732.7	1762.7	1808.7
32.5°	1282.3	1273.5	1268.2	1218.7	1164.0	1239.9	1466.0	1504.9	1550.8
35°	967.9	948.5	962.6	925.5	876.1	971.5	1220.5	1254.1	1291.2
37.5°	713.6	699.4	711.8	685.3	641.2	745.4	980.3	1001.5	1026.2
40°	512.2	499.9	510.5	494.6	459.2	556.4	768.3	791.3	801.9
42.5°	363.9	342.7	353.3	340.9	323.2	418.6	604.1	625.3	628.8
45°	229.6	222.6	229.6	222.6	219.0	310.9	476.9	496.3	505.2
47.5°	139.5	130.7	130.7	127.2	130.7	229.6	393.9	422.1	436.3
50°	79.5	76.0	74.2	72.4	79.5	180.2	340.9	372.7	390.3
52.5°	53.0	51.2	51.2	49.5	58.3	151.9	307.3	335.6	353.3
55°	38.9	37.1	37.1	37.1	45.9	130.7	282.6	305.6	321.5
57.5°	30.0	30.0	30.0	28.3	38.9	111.3	252.6	264.9	277.3
60°	24.7	23.0	23.0	23.0	31.8	95.4	217.3	222.6	229.6
62.5°	19.4	19.4	19.4	19.4	26.5	84.8	187.2	187.2	190.8
65°	17.7	15.9	15.9	15.9	23.0	74.2	157.2	155.4	159.0
67.5°	14.1	14.1	14.1	14.1	19.4	63.6	128.9	127.2	130.7
70°	12.4	12.4	12.4	12.4	15.9	53.0	104.2	102.4	106.0
72.5°	10.6	10.6	10.6	10.6	14.1	44.2	83.0	83.0	84.8
75°	8.8	8.8	8.8	8.8	12.4	33.6	67.1	67.1	68.9
77.5°	7.1	7.1	7.1	7.1	8.8	26.5	51.2	49.5	49.5
80°	3.5	5.3	5.3	5.3	7.1	19.4	37.1	33.6	33.6
82.5°	1.8	3.5	3.5	3.5	7.1	14.1	24.7	23.0	23.0
85°	1.8	1.8	1.8	5.3	7.1	10.6	15.9	15.9	15.9
87.5°	0.0	1.8	3.5	7.1	8.8	8.8	10.6	8.8	8.8
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)