

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: P799705

Luminaire Tested: **LD6C40D010 EU6409050 6LBMDDWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799705
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: LD6C40D010 EU6409050 6LBMDDWWMH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

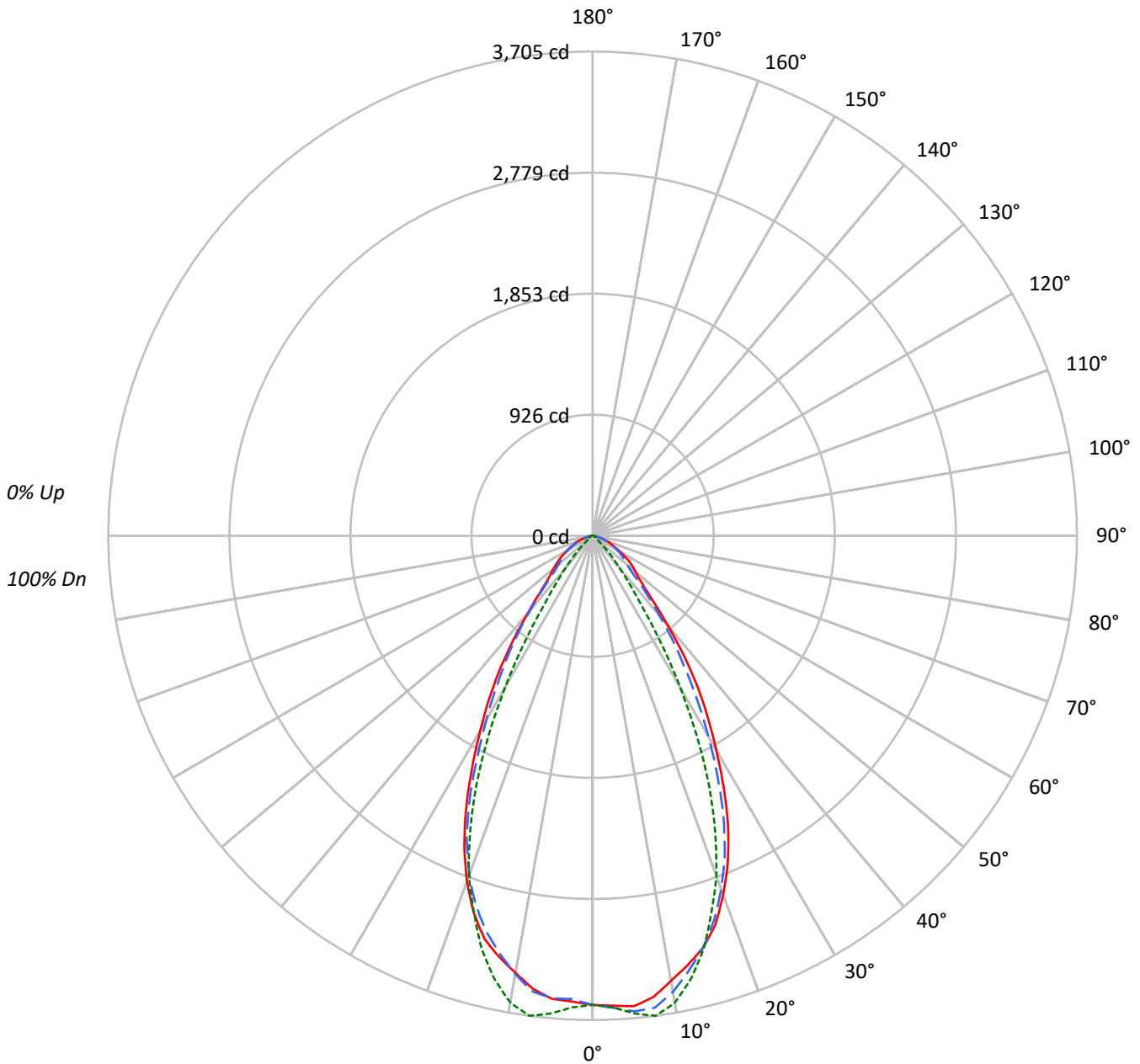
Lumens per Lamp: N/A
Luminaire Lumens: 3655.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	196815	196815	196815
5°	198871	201887	195757
10°	192431	201883	189075
15°	185205	185932	181267
20°	170453	161504	164059
25°	148345	127356	138183
30°	119639	84614	108542
35°	92755	43627	81512
40°	63641	22607	54889
45°	43601	11327	38508
50°	36289	4827	33014
55°	32639	4186	29495
60°	25831	4002	24625
65°	21325	3554	21079
70°	17263	3222	17263
75°	12772	3474	13535
80°	7482	2873	8082
85°	5724	3459	5724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.7	9.4
10°-20°	897.0	24.5
20°-30°	1023.8	28.0
30°-40°	679.0	18.6
40°-50°	327.5	9.0
50°-60°	201.5	5.5
60°-70°	121.9	3.3
70°-80°	51.3	1.4
80°-90°	11.3	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°	2262.6	61.9
0°-40°	2941.6	80.5
0°-60°	3470.5	95.0
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°	3590	3590	3590	3590	3590	
5°	3614	3652	3669	3552	3557	340
15°	3263	3263	3276	3137	3194	909
25°	2452	2370	2106	2228	2284	1112
35°	1386	1222	652	1140	1218	857
45°	562	493	146	460	497	459
55°	342	278	44	278	309	300
65°	164	157	27	148	162	165
75°	60	60	16	57	64	64
85°	9	13	6	9	9	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°	3590.2	3590.2	3590.2	3590.2	3590.2	3590.2	3590.2	3590.2	3590.2
2.5°	3599.3	3604.8	3615.7	3617.6	3612.1	3577.4	3548.2	3559.1	3568.3
5°	3613.9	3624.9	3652.3	3677.8	3668.7	3610.3	3551.8	3550.0	3557.3
7.5°	3561.0	3586.5	3643.1	3707.0	3705.2	3604.8	3519.0	3497.0	3497.0
10°	3456.9	3480.6	3542.7	3628.5	3626.7	3500.7	3405.7	3394.8	3396.6
12.5°	3363.7	3374.7	3405.7	3473.3	3473.3	3349.1	3276.1	3287.0	3301.6
15°	3263.3	3270.6	3263.3	3285.2	3276.1	3173.8	3137.3	3172.0	3193.9
17.5°	3120.9	3124.5	3086.2	3056.9	3022.2	2958.3	2967.5	3018.6	3024.1
20°	2921.8	2945.6	2876.2	2801.3	2768.4	2708.2	2759.3	2815.9	2812.2
22.5°	2702.7	2730.1	2640.6	2516.4	2448.8	2425.1	2516.4	2567.5	2565.7
25°	2452.5	2472.6	2370.3	2196.8	2105.5	2101.9	2227.9	2280.8	2284.5
27.5°	2171.3	2178.6	2063.5	1837.1	1723.9	1751.3	1910.1	1983.2	1992.3
30°	1890.0	1886.4	1767.7	1486.5	1336.7	1411.6	1625.3	1705.6	1714.7
32.5°	1632.6	1621.6	1486.5	1150.5	971.5	1082.9	1364.1	1448.1	1462.7
35°	1386.0	1367.8	1221.7	851.0	651.9	818.1	1139.5	1212.6	1218.0
37.5°	1128.5	1119.4	1004.4	637.3	454.7	620.9	929.5	982.5	977.0
40°	889.3	889.3	794.4	473.0	315.9	462.0	735.9	783.4	767.0
42.5°	697.6	706.7	626.4	348.8	224.6	343.3	582.5	626.4	608.1
45°	562.4	562.4	493.1	259.3	146.1	255.7	460.2	500.4	496.7
47.5°	476.6	469.3	399.9	189.9	80.3	191.7	387.1	436.4	434.6
50°	425.5	414.5	343.3	149.7	56.6	158.9	339.7	385.3	387.1
52.5°	385.3	368.9	308.6	133.3	49.3	138.8	308.6	345.1	345.1
55°	341.5	332.4	277.6	118.7	43.8	124.2	277.6	310.4	308.6
57.5°	288.5	286.7	248.4	107.7	40.2	109.6	248.4	268.4	261.1
60°	235.6	242.9	215.5	96.8	36.5	98.6	211.8	228.3	224.6
62.5°	197.2	206.4	188.1	85.8	31.0	87.7	179.0	195.4	191.7
65°	164.4	171.7	157.0	73.0	27.4	73.0	147.9	162.5	162.5
67.5°	135.1	140.6	129.7	60.3	23.7	60.3	120.5	133.3	135.1
70°	107.7	111.4	102.3	47.5	20.1	49.3	95.0	107.7	107.7
72.5°	84.0	85.8	80.3	38.3	18.3	38.3	73.0	84.0	84.0
75°	60.3	63.9	60.3	29.2	16.4	29.2	56.6	62.1	63.9
77.5°	34.7	43.8	43.8	23.7	12.8	21.9	40.2	42.0	42.0
80°	23.7	27.4	31.0	16.4	9.1	16.4	25.6	27.4	25.6
82.5°	16.4	18.3	18.3	11.0	7.3	11.0	16.4	18.3	16.4
85°	9.1	12.8	12.8	9.1	5.5	7.3	9.1	11.0	9.1
87.5°	5.5	7.3	9.1	7.3	5.5	5.5	5.5	5.5	3.7
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)