

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: P563838

Luminaire Tested: **LD4C40D010 EX4C409030 4LCSQWH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-14)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C40D010 EX4C409030 4LCSQWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

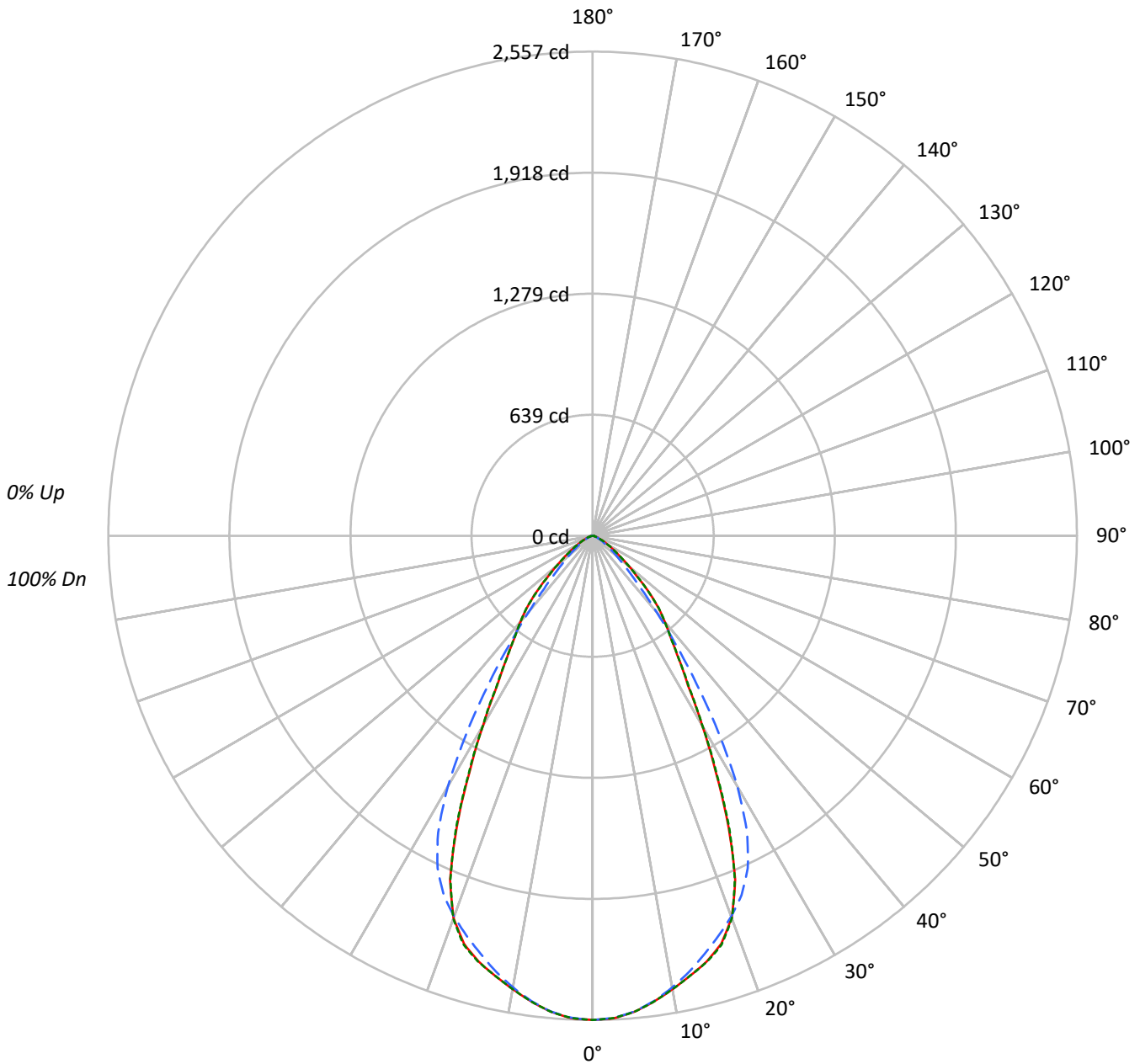
Lumens per Lamp: N/A
Luminaire Lumens: 2706.7 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V):
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				100															
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84															
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77				77															
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71				71															
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66				66															
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61				61															
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56				56															
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52				52															
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49				49															
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46				46															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	246751	246751	246751
5°	244497	244352	244420
10°	238242	237291	238242
15°	232510	228315	232750
20°	220447	219625	220857
25°	180829	206327	181776
30°	128941	170455	129120
35°	93008	112950	93291
40°	74567	65624	74567
45°	56902	38290	56452
50°	37528	24468	37407
55°	25233	16402	24964
60°	16963	11212	17117
65°	11598	7922	11416
70°	7758	5671	7758
75°	5107	4213	5107
80°	3556	3112	3556
85°	2657	2657	2657



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	8.8
10°-20°	648.2	23.9
20°-30°	810.4	29.9
30°-40°	545.2	20.1
40°-50°	287.9	10.6
50°-60°	117.0	4.3
60°-70°	43.4	1.6
70°-80°	14.0	0.5
80°-90°	3.0	0.1
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°	1696.3	62.7
0°-40°	2241.5	82.8
0°-60°	2646.3	97.8
0°-90°	2706.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2706.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2557	2557	2557	2557	2557	
5°	2524	2522	2523	2523	2524	238
15°	2328	2308	2286	2307	2330	652
25°	1698	1794	1938	1797	1707	765
35°	790	829	959	831	792	508
45°	417	396	281	394	414	320
55°	150	126	98	126	148	139
65°	51	41	35	41	50	52
75°	14	12	11	12	14	16
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2557.3	2557.3	2557.3	2557.3	2557.3
2.5°	2550.9	2549.3	2548.5	2548.5	2549.3
5°	2524.3	2521.9	2522.8	2522.8	2523.5
7.5°	2481.6	2480.7	2478.3	2481.6	2481.6
10°	2431.6	2427.5	2421.9	2428.4	2431.6
12.5°	2379.9	2367.8	2358.2	2367.8	2379.9
15°	2327.6	2308.2	2285.6	2307.4	2330.0
17.5°	2259.0	2239.7	2214.6	2243.6	2265.4
20°	2146.9	2148.5	2138.9	2146.9	2150.9
22.5°	1967.1	2003.4	2054.1	2004.1	1961.4
25°	1698.5	1793.6	1938.0	1796.9	1707.4
27.5°	1410.6	1531.5	1767.8	1538.8	1419.4
30°	1157.3	1264.6	1529.9	1271.8	1158.9
32.5°	937.1	1017.0	1243.6	1026.7	947.6
35°	789.6	829.1	958.9	830.6	792.0
37.5°	676.6	676.6	712.1	679.9	673.4
40°	592.0	566.2	521.0	565.4	592.0
42.5°	513.0	474.2	378.2	472.6	514.5
45°	417.0	396.0	280.6	394.4	413.7
47.5°	320.2	305.7	211.3	304.0	322.6
50°	250.0	227.4	163.0	225.8	249.2
52.5°	191.9	167.7	125.8	167.7	190.3
55°	150.0	125.8	97.5	125.8	148.4
57.5°	115.4	95.9	74.2	94.4	114.5
60°	87.9	71.8	58.1	71.8	88.7
62.5°	66.9	54.8	44.3	54.0	66.1
65°	50.8	41.1	34.7	41.1	50.0
67.5°	37.1	30.6	26.7	30.6	37.9
70°	27.5	23.4	20.1	22.6	27.5
72.5°	20.1	16.9	15.4	16.9	20.1
75°	13.7	12.1	11.3	12.1	13.7
77.5°	9.7	8.8	8.0	8.8	9.7
80°	6.4	5.6	5.6	6.4	6.4
82.5°	4.1	4.1	4.1	4.1	4.1
85°	2.4	2.4	2.4	2.4	2.4
87.5°	1.6	1.6	1.6	1.6	1.6
90°	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)