

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: P563811

Luminaire Tested: **LD4C25D010 EX4C259030 4LCSQWH**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P563811
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: LD4C25D010 EX4C259030 4LCSQWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

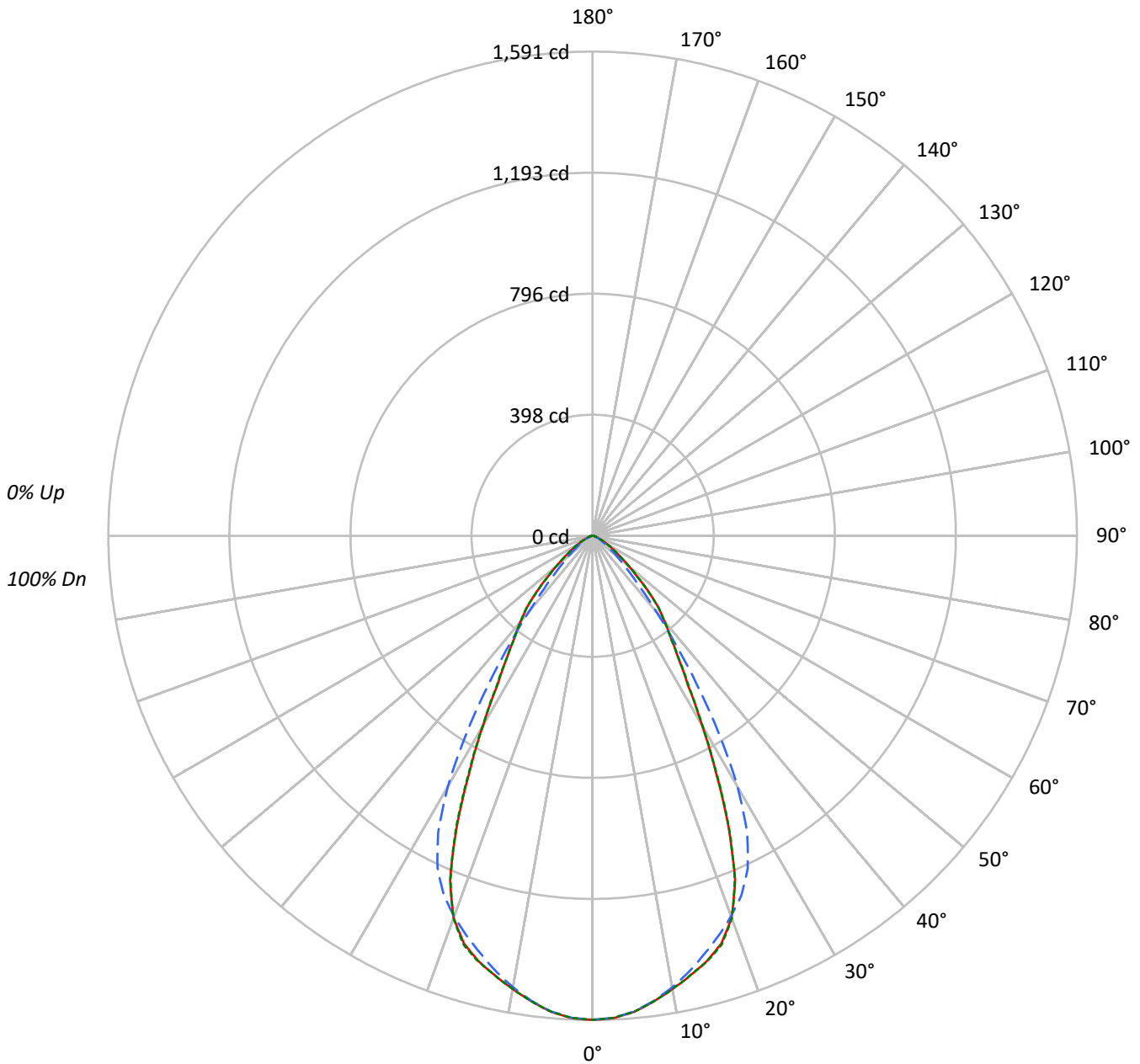
Lumens per Lamp: N/A
Luminaire Lumens: 1683.5 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	153475	153475	153475
5°	152057	151969	152018
10°	148171	147583	148171
15°	144605	141997	144754
20°	137110	136587	137357
25°	112468	128331	113054
30°	80197	106012	80308
35°	57847	70251	58012
40°	46365	40823	46365
45°	35383	23825	35124
50°	23342	15206	23267
55°	15695	10211	15527
60°	10537	6966	10633
65°	7215	4932	7101
70°	4824	3526	4824
75°	3169	2610	3169
80°	2223	2000	2223
85°	1661	1661	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	8.8
10°-20°	403.2	23.9
20°-30°	504.0	29.9
30°-40°	339.1	20.1
40°-50°	179.0	10.6
50°-60°	72.8	4.3
60°-70°	27.0	1.6
70°-80°	8.7	0.5
80°-90°	1.9	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°	1055.0	62.7
0°-40°	1394.1	82.8
0°-60°	1645.9	97.8
0°-90°	1683.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1570	1568	1569	1569	1570	148
15°	1448	1436	1422	1435	1449	406
25°	1056	1116	1205	1118	1062	475
35°	491	516	596	517	492	316
45°	259	246	175	245	257	199
55°	93	78	61	78	92	87
65°	32	26	22	26	31	33
75°	8	8	7	8	8	10
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590.6	1590.6	1590.6	1590.6	1590.6
2.5°	1586.5	1585.5	1585.0	1585.0	1585.5
5°	1569.9	1568.5	1569.0	1569.0	1569.5
7.5°	1543.4	1542.9	1541.4	1543.4	1543.4
10°	1512.3	1509.8	1506.3	1510.3	1512.3
12.5°	1480.2	1472.7	1466.7	1472.7	1480.2
15°	1447.6	1435.6	1421.5	1435.1	1449.1
17.5°	1405.0	1393.0	1377.4	1395.4	1409.0
20°	1335.3	1336.3	1330.2	1335.3	1337.7
22.5°	1223.4	1246.0	1277.6	1246.5	1219.9
25°	1056.4	1115.6	1205.4	1117.6	1061.9
27.5°	877.3	952.5	1099.5	957.1	882.8
30°	719.8	786.5	951.5	791.0	720.8
32.5°	582.9	632.5	773.5	638.5	589.4
35°	491.1	515.6	596.4	516.6	492.5
37.5°	420.8	420.8	442.9	422.9	418.9
40°	368.1	352.2	324.1	351.6	368.1
42.5°	319.0	295.0	235.3	294.0	320.0
45°	259.3	246.3	174.6	245.2	257.4
47.5°	199.2	190.1	131.4	189.1	200.6
50°	155.5	141.5	101.3	140.5	155.0
52.5°	119.4	104.4	78.2	104.4	118.4
55°	93.3	78.2	60.7	78.2	92.3
57.5°	71.7	59.7	46.2	58.7	71.2
60°	54.6	44.7	36.1	44.7	55.1
62.5°	41.6	34.1	27.6	33.6	41.1
65°	31.6	25.5	21.6	25.5	31.1
67.5°	23.1	19.0	16.6	19.0	23.6
70°	17.1	14.5	12.5	14.0	17.1
72.5°	12.5	10.6	9.6	10.6	12.5
75°	8.5	7.5	7.0	7.5	8.5
77.5°	6.0	5.5	5.0	5.5	6.0
80°	4.0	3.6	3.6	4.0	4.0
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.5	1.5	1.5	1.5	1.5
87.5°	1.0	1.0	1.0	1.0	1.0
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)