

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: P563820

Luminaire Tested: **LD4C30D010 EX4C309030 4LCSQWH**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P563820
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: LD4C30D010 EX4C309030 4LCSQWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

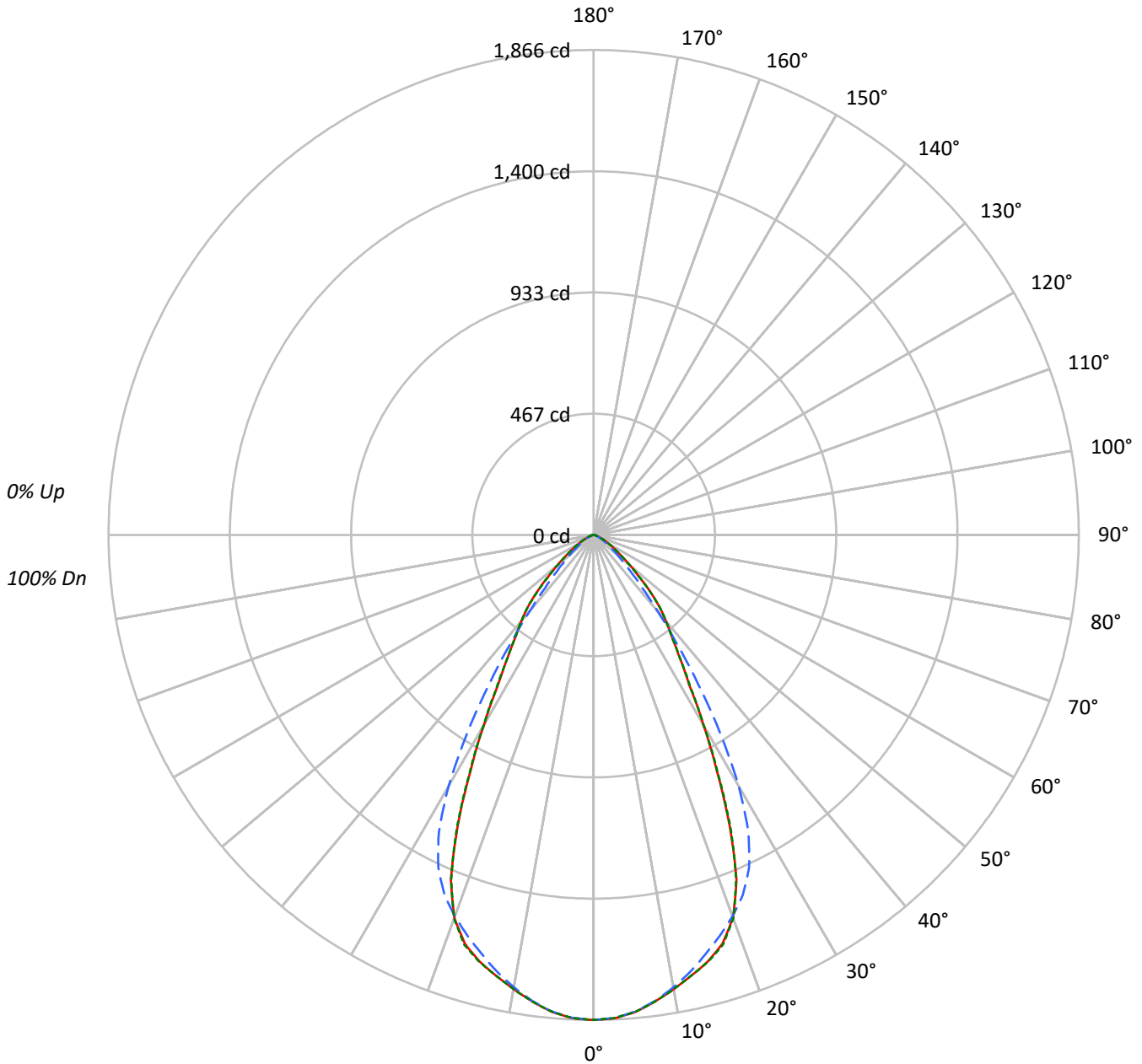
Lumens per Lamp: N/A
Luminaire Lumens: 1975.4 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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					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	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°	180087	180087	180087
5°	178441	178315	178373
10°	173871	173175	173871
15°	169678	166621	169867
20°	160881	160275	161179
25°	131972	150572	132664
30°	94102	124407	94235
35°	67871	82430	68083
40°	54414	47889	54414
45°	41510	27960	41196
50°	27395	17848	27305
55°	18420	11977	18219
60°	12389	8182	12486
65°	8470	5776	8333
70°	5642	4147	5642
75°	3728	3057	3728
80°	2612	2334	2612
85°	1882	1882	1882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	8.8
10°-20°	473.1	23.9
20°-30°	591.4	29.9
30°-40°	397.9	20.1
40°-50°	210.1	10.6
50°-60°	85.4	4.3
60°-70°	31.7	1.6
70°-80°	10.2	0.5
80°-90°	2.2	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°	1238.0	62.7
0°-40°	1635.8	82.8
0°-60°	1931.3	97.8
0°-90°	1975.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1975.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1866	1866	1866	1866	1866	
5°	1842	1840	1841	1841	1842	174
15°	1699	1684	1668	1684	1700	476
25°	1240	1309	1414	1311	1246	558
35°	576	605	700	606	578	371
45°	304	289	205	288	302	233
55°	110	92	71	92	108	102
65°	37	30	25	30	36	38
75°	10	9	8	9	10	12
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°	1866.4	1866.4	1866.4	1866.4	1866.4
2.5°	1861.7	1860.5	1860.0	1860.0	1860.5
5°	1842.3	1840.5	1841.0	1841.0	1841.6
7.5°	1811.0	1810.5	1808.7	1811.0	1811.0
10°	1774.6	1771.7	1767.5	1772.2	1774.6
12.5°	1736.9	1728.0	1721.0	1728.0	1736.9
15°	1698.6	1684.5	1668.0	1684.0	1700.5
17.5°	1648.6	1634.4	1616.2	1637.4	1653.4
20°	1566.8	1568.0	1560.9	1566.8	1569.7
22.5°	1435.6	1462.0	1499.1	1462.6	1431.4
25°	1239.6	1309.0	1414.3	1311.4	1246.1
27.5°	1029.4	1117.7	1290.1	1123.0	1035.9
30°	844.6	922.9	1116.6	928.2	845.8
32.5°	684.0	742.1	907.5	749.3	691.6
35°	576.2	605.0	699.8	606.3	578.0
37.5°	493.9	493.9	519.7	496.2	491.5
40°	432.0	413.2	380.2	412.6	432.0
42.5°	374.3	346.1	276.1	344.9	375.6
45°	304.2	289.0	204.9	287.8	301.9
47.5°	233.7	223.1	154.2	221.9	235.5
50°	182.5	166.0	118.9	164.8	181.9
52.5°	140.1	122.5	91.9	122.5	138.9
55°	109.5	91.9	71.2	91.9	108.3
57.5°	84.1	70.1	54.1	68.9	83.6
60°	64.2	52.4	42.4	52.4	64.7
62.5°	48.8	40.0	32.3	39.5	48.2
65°	37.1	30.0	25.3	30.0	36.5
67.5°	27.1	22.4	19.4	22.4	27.7
70°	20.0	17.1	14.7	16.5	20.0
72.5°	14.7	12.4	11.2	12.4	14.7
75°	10.0	8.8	8.2	8.8	10.0
77.5°	7.0	6.5	5.9	6.5	7.0
80°	4.7	4.2	4.2	4.7	4.7
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.7	1.7	1.7	1.7	1.7
87.5°	1.2	1.2	1.2	1.2	1.2
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)