

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: P#

Luminaire Tested: **LD4C80D010 EX4C809030 4LCSQWLI**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C80D010 EX4C809030 4LCSQWLI
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

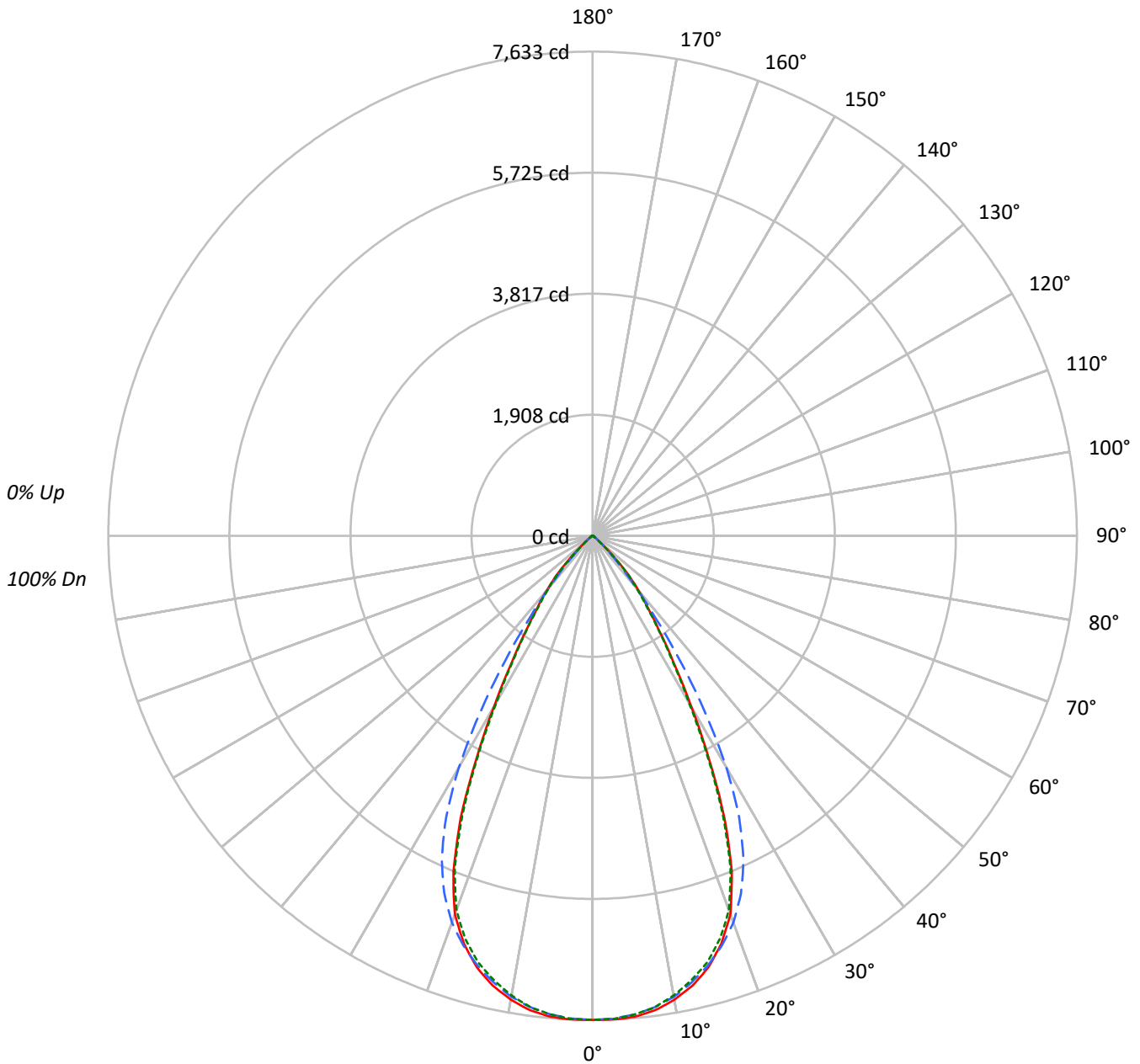
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6832.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
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

TEST NUMBER: P#
CATALOG NUMBER: LD4C80D010 EX4C809030 4LCSQWLI

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809030 4LCSQWLI

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																			
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	736355	736355	736355
5°	737124	733734	733734
10°	727443	723152	720918
15°	703834	700507	695782
20°	651842	666063	644633
25°	524110	599135	517201
30°	345924	469762	337724
35°	216206	282086	212283
40°	141110	130731	135580
45°	67941	52153	64107
50°	17113	20790	16047
55°	9437	8546	9135
60°	6426	5423	6098
65°	4406	3995	4406
70°	3470	2962	3470
75°	2610	2610	2610
80°	1945	2945	2945
85°	1993	3875	3875



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809030 4LCSQWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.7	10.5
10°-20°	1959.9	28.7
20°-30°	2335.7	34.2
30°-40°	1322.6	19.4
40°-50°	408.9	6.0
50°-60°	56.8	0.8
60°-70°	19.4	0.3
70°-80°	7.7	0.1
80°-90°	3.3	0.0
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°	5013.4	73.4
0°-40°	6336.0	92.7
0°-60°	6801.6	99.6
0°-90°	6832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7632	7632	7632	7632	7632	
5°	7610	7593	7575	7570	7575	721
15°	7046	7034	7013	6985	6965	1965
25°	4923	5210	5628	5219	4858	2195
35°	1836	2002	2395	2007	1802	1195
45°	498	580	382	564	470	411
55°	56	56	51	54	54	55
65°	19	19	18	19	19	20
75°	7	7	7	7	7	8
85°	2	4	4	4	4	2
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809030 4LCSQWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7631.5	7631.5	7631.5	7631.5	7631.5
2.5°	7633.2	7621.0	7617.4	7613.9	7621.0
5°	7610.4	7592.9	7575.4	7570.1	7575.4
7.5°	7545.6	7528.0	7498.2	7491.2	7496.5
10°	7424.6	7408.8	7380.8	7365.0	7358.0
12.5°	7265.1	7238.8	7212.5	7194.9	7177.4
15°	7045.9	7033.6	7012.6	6984.6	6965.3
17.5°	6742.6	6760.2	6772.4	6716.3	6665.5
20°	6348.2	6413.0	6486.7	6372.7	6278.0
22.5°	5732.8	5918.6	6106.2	5890.6	5680.2
25°	4922.9	5210.4	5627.6	5219.1	4858.0
27.5°	3977.9	4342.6	5000.0	4344.3	3925.3
30°	3104.8	3480.0	4216.3	3430.9	3031.2
32.5°	2384.3	2664.8	3294.2	2622.7	2333.4
35°	1835.5	2002.1	2394.8	2007.4	1802.2
37.5°	1427.1	1511.2	1611.1	1481.4	1385.0
40°	1120.3	1123.8	1037.9	1106.2	1076.4
42.5°	831.0	827.5	638.1	806.4	811.7
45°	497.9	580.3	382.2	564.5	469.8
47.5°	236.7	327.8	229.7	310.3	219.1
50°	114.0	157.8	138.5	147.3	106.9
52.5°	77.1	80.6	78.9	77.1	73.6
55°	56.1	56.1	50.8	54.3	54.3
57.5°	42.1	42.1	36.8	40.3	40.3
60°	33.3	31.6	28.1	31.6	31.6
62.5°	24.5	24.5	21.0	24.5	24.5
65°	19.3	19.3	17.5	19.3	19.3
67.5°	15.8	15.8	12.3	15.8	14.0
70°	12.3	12.3	10.5	12.3	12.3
72.5°	8.8	8.8	8.8	8.8	8.8
75°	7.0	7.0	7.0	7.0	7.0
77.5°	5.3	5.3	5.3	5.3	5.3
80°	3.5	3.5	5.3	5.3	5.3
82.5°	3.5	3.5	3.5	3.5	3.5
85°	1.8	3.5	3.5	3.5	3.5
87.5°	1.8	1.8	3.5	3.5	3.5
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)