

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: METALUX

Report Number: P413139

Luminaire Tested: **22PD-75-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-75-PC3-L850
Description: 7500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

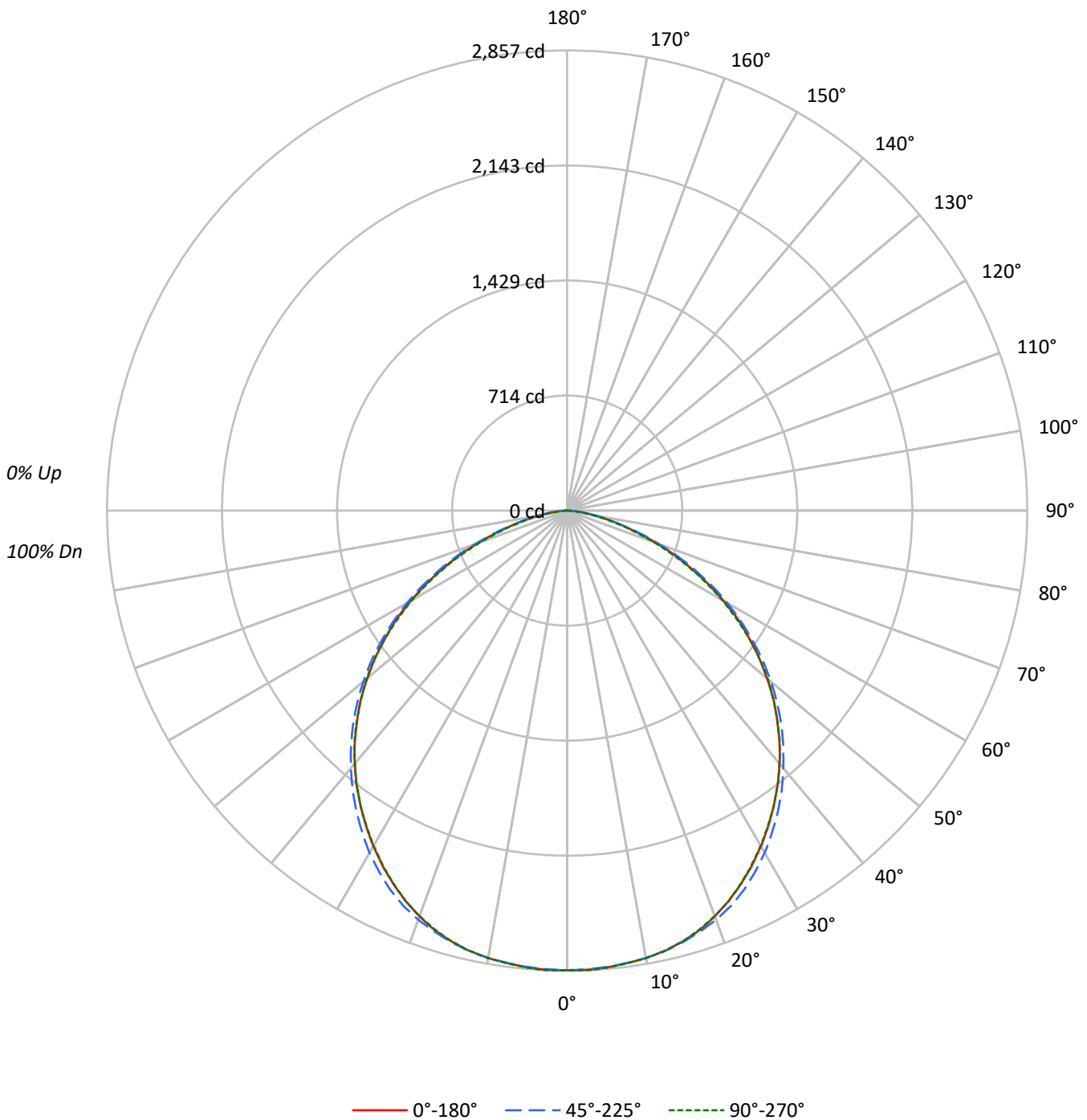
Lumens per Lamp: N/A
Luminaire Lumens: 7666.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.5
Input Voltage (V): NR
Input Current (Ain): 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: P413139

CATALOG NUMBER: 22PD-75-PC3-L850

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7679	7679	7679
5°	7689	7684	7693
10°	7708	7706	7708
15°	7717	7727	7715
20°	7678	7740	7673
25°	7589	7713	7584
30°	7476	7623	7465
35°	7347	7493	7347
40°	7209	7337	7209
45°	7019	7157	7029
50°	6779	6912	6805
55°	6464	6592	6464
60°	6028	6179	5989
65°	5409	5600	5340
70°	4627	4792	4492
75°	3671	3775	3482
80°	2630	2729	2504
85°	1738	1794	1624



TEST NUMBER: P413139

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	3.5
10°-20°	782.0	10.2
20°-30°	1186.5	15.5
30°-40°	1416.9	18.5
40°-50°	1441.0	18.8
50°-60°	1246.5	16.3
60°-70°	857.7	11.2
70°-80°	389.3	5.1
80°-90°	75.4	1.0
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°	2239.3	29.2
0°-40°	3656.2	47.7
0°-60°	6343.7	82.8
0°-90°	7666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2854	2854	2854	2854	2854	
5°	2846	2844	2844	2844	2848	271
15°	2770	2772	2774	2769	2769	781
25°	2556	2579	2598	2574	2554	1177
35°	2236	2276	2281	2273	2236	1399
45°	1844	1878	1881	1879	1847	1422
55°	1378	1401	1405	1402	1378	1231
65°	850	873	880	872	839	843
75°	353	367	363	359	335	380
85°	56	60	58	56	53	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2853.6	2853.6	2853.6	2853.6	2853.6
2.5°	2853.6	2849.9	2850.9	2851.8	2857.2
5°	2846.3	2843.6	2844.5	2844.5	2848.1
7.5°	2834.5	2833.6	2833.6	2832.7	2835.4
10°	2820.9	2819.1	2820.0	2819.1	2820.9
12.5°	2800.0	2800.0	2800.9	2798.2	2800.0
15°	2770.1	2771.9	2773.7	2769.2	2769.2
17.5°	2732.0	2736.5	2741.0	2732.9	2728.3
20°	2681.1	2692.0	2702.9	2690.2	2679.3
22.5°	2622.1	2640.3	2656.6	2636.7	2622.1
25°	2555.9	2578.6	2597.6	2574.0	2554.1
27.5°	2484.2	2509.6	2527.7	2507.8	2480.5
30°	2406.1	2437.0	2453.3	2434.3	2402.5
32.5°	2322.6	2358.9	2368.9	2357.1	2320.8
35°	2236.4	2276.3	2280.9	2272.7	2236.4
37.5°	2146.5	2184.7	2188.3	2183.8	2146.5
40°	2052.1	2087.5	2088.5	2088.5	2052.1
42.5°	1951.4	1985.9	1985.9	1985.0	1954.1
45°	1844.3	1877.9	1880.6	1878.8	1847.0
47.5°	1738.1	1763.5	1768.1	1764.4	1736.3
50°	1619.2	1645.5	1651.0	1647.3	1625.6
52.5°	1501.2	1525.7	1531.2	1528.4	1503.9
55°	1377.8	1401.4	1405.0	1402.3	1377.8
57.5°	1258.9	1274.3	1277.9	1272.5	1241.6
60°	1120.0	1141.8	1148.1	1141.8	1112.8
62.5°	985.7	1009.3	1014.7	1005.7	974.8
65°	849.5	873.1	879.5	872.2	838.6
67.5°	720.7	737.9	743.3	735.2	704.3
70°	588.1	609.9	609.0	598.1	570.9
72.5°	457.4	487.4	482.0	475.6	445.6
75°	353.1	366.7	363.1	359.4	334.9
77.5°	252.3	268.7	259.6	260.5	239.6
80°	169.7	185.2	176.1	172.4	161.6
82.5°	108.0	114.4	112.5	110.7	100.7
85°	56.3	59.9	58.1	56.3	52.6
87.5°	21.8	23.6	21.8	21.8	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)