

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: P413130

Luminaire Tested: **22PD-70-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413130
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-70-PC3-L850
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

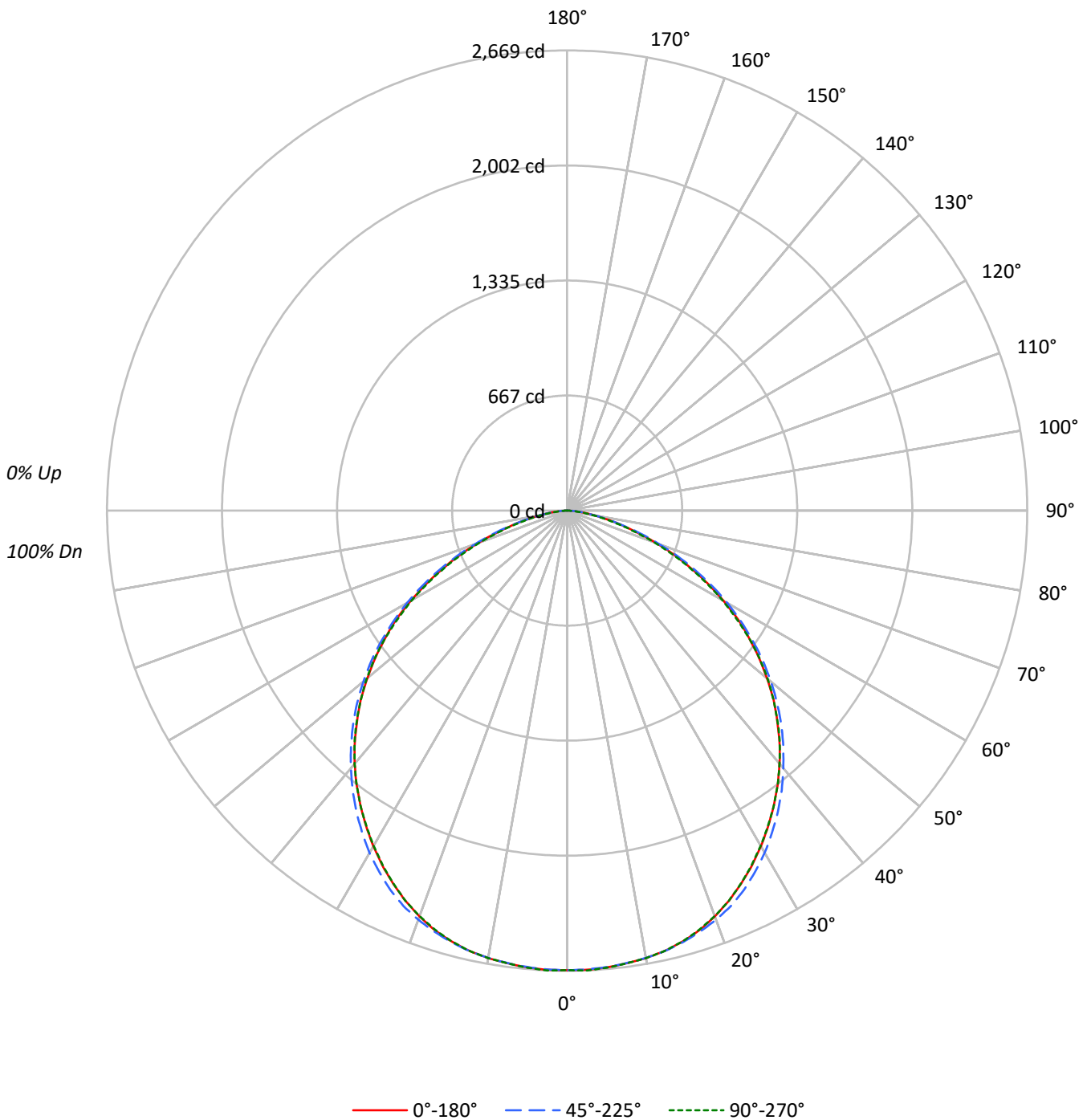
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7162.0 lumens
Efficiency: N/A
Efficacy: 113.7 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): 63
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

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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	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°	7174	7174	7174
5°	7183	7179	7188
10°	7201	7199	7201
15°	7210	7219	7207
20°	7173	7231	7168
25°	7090	7206	7085
30°	6985	7122	6974
35°	6864	7000	6864
40°	6735	6854	6735
45°	6557	6686	6567
50°	6333	6457	6358
55°	6039	6158	6039
60°	5632	5773	5595
65°	5054	5232	4989
70°	4323	4477	4197
75°	3430	3527	3253
80°	2458	2549	2338
85°	1624	1677	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.9	3.5
10°-20°	730.6	10.2
20°-30°	1108.5	15.5
30°-40°	1323.8	18.5
40°-50°	1346.3	18.8
50°-60°	1164.5	16.3
60°-70°	801.3	11.2
70°-80°	363.7	5.1
80°-90°	70.4	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°	2092.0	29.2
0°-40°	3415.8	47.7
0°-60°	5926.6	82.8
0°-90°	7162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2659	2657	2658	2658	2661	253
15°	2588	2590	2591	2587	2587	730
25°	2388	2409	2427	2405	2386	1100
35°	2089	2127	2131	2123	2089	1307
45°	1723	1754	1757	1755	1726	1329
55°	1287	1309	1313	1310	1287	1150
65°	794	816	822	815	784	787
75°	330	343	339	336	313	355
85°	53	56	54	53	49	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2666.0	2666.0	2666.0	2666.0	2666.0
2.5°	2666.0	2662.6	2663.4	2664.3	2669.4
5°	2659.2	2656.6	2657.5	2657.5	2660.9
7.5°	2648.2	2647.3	2647.3	2646.5	2649.0
10°	2635.4	2633.7	2634.6	2633.7	2635.4
12.5°	2615.9	2615.9	2616.8	2614.2	2615.9
15°	2588.0	2589.7	2591.4	2587.1	2587.1
17.5°	2552.3	2556.6	2560.8	2553.2	2549.0
20°	2504.9	2515.0	2525.2	2513.3	2503.2
22.5°	2449.7	2466.7	2482.0	2463.3	2449.7
25°	2387.8	2409.0	2426.8	2404.8	2386.1
27.5°	2320.9	2344.6	2361.6	2342.9	2317.5
30°	2247.9	2276.8	2292.0	2274.2	2244.5
32.5°	2169.9	2203.8	2213.2	2202.1	2168.2
35°	2089.4	2126.7	2130.9	2123.3	2089.4
37.5°	2005.4	2041.0	2044.4	2040.2	2005.4
40°	1917.2	1950.3	1951.1	1951.1	1917.2
42.5°	1823.1	1855.3	1855.3	1854.5	1825.6
45°	1723.0	1754.4	1757.0	1755.3	1725.6
47.5°	1623.8	1647.6	1651.8	1648.4	1622.1
50°	1512.8	1537.3	1542.4	1539.0	1518.7
52.5°	1402.5	1425.4	1430.5	1428.0	1405.1
55°	1287.2	1309.2	1312.6	1310.1	1287.2
57.5°	1176.1	1190.5	1193.9	1188.8	1160.0
60°	1046.4	1066.7	1072.7	1066.7	1039.6
62.5°	920.9	942.9	948.0	939.5	910.7
65°	793.7	815.7	821.7	814.9	783.5
67.5°	673.3	689.4	694.5	686.8	658.0
70°	549.5	569.8	569.0	558.8	533.4
72.5°	427.4	455.4	450.3	444.3	416.3
75°	329.9	342.6	339.2	335.8	312.9
77.5°	235.7	251.0	242.5	243.4	223.9
80°	158.6	173.0	164.5	161.1	150.9
82.5°	100.9	106.8	105.1	103.5	94.1
85°	52.6	56.0	54.3	52.6	49.2
87.5°	20.4	22.0	20.4	20.4	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)