

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: P413127

Luminaire Tested: **22PD-70-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413127
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-L830
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

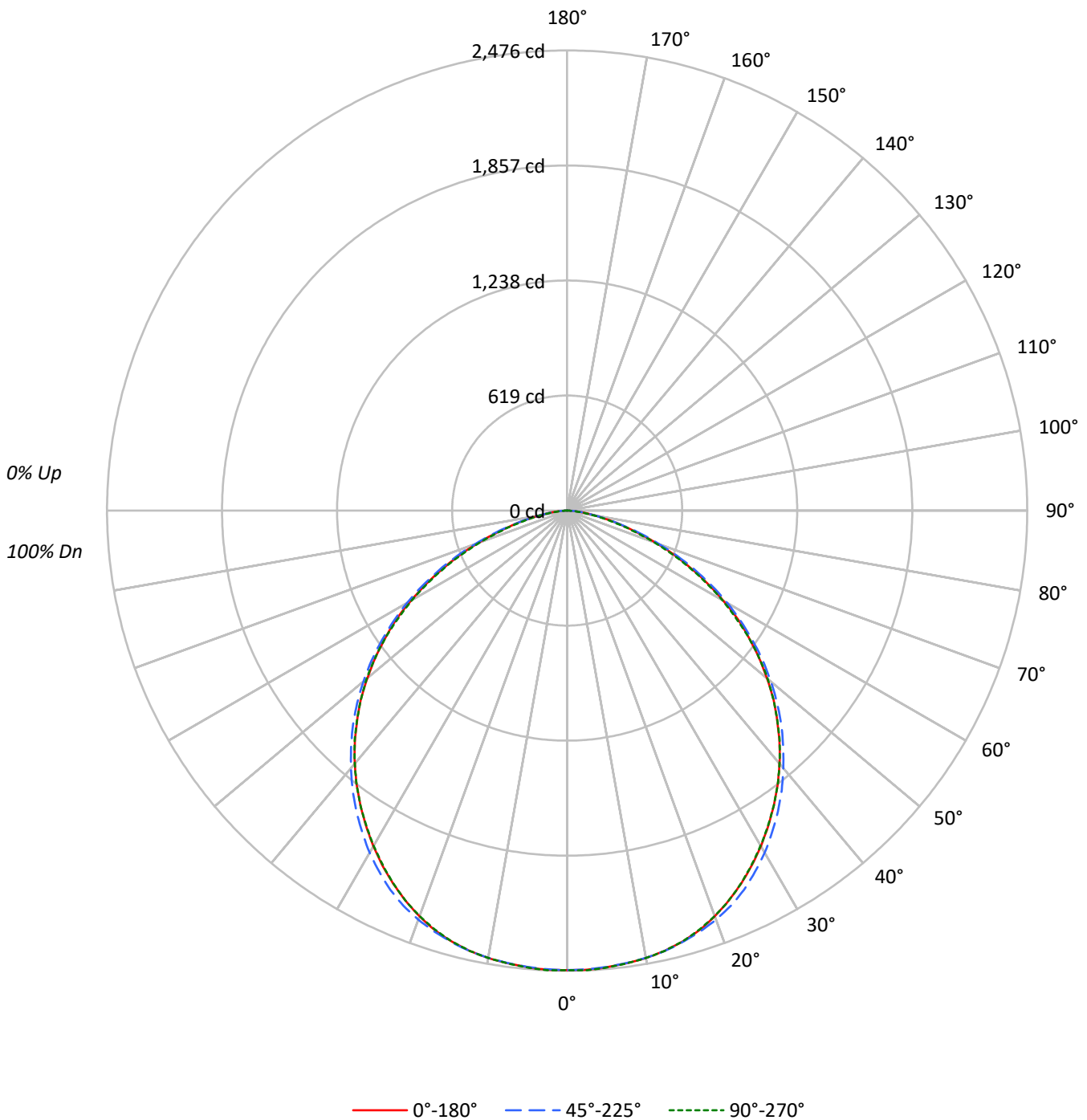
Lumens per Lamp: N/A
Luminaire Lumens: 6643.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	6654	6654	6654
5°	6663	6658	6667
10°	6680	6677	6680
15°	6687	6696	6685
20°	6653	6707	6649
25°	6576	6684	6571
30°	6479	6606	6469
35°	6366	6493	6366
40°	6247	6358	6247
45°	6082	6202	6091
50°	5874	5990	5897
55°	5601	5712	5601
60°	5224	5355	5190
65°	4688	4853	4627
70°	4010	4152	3892
75°	3182	3271	3017
80°	2280	2365	2170
85°	1507	1553	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	3.5
10°-20°	677.7	10.2
20°-30°	1028.1	15.5
30°-40°	1227.9	18.5
40°-50°	1248.7	18.8
50°-60°	1080.1	16.3
60°-70°	743.2	11.2
70°-80°	337.3	5.1
80°-90°	65.3	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°	1940.4	29.2
0°-40°	3168.3	47.7
0°-60°	5497.2	82.8
0°-90°	6643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2473	2473	2473	2473	2473	
5°	2466	2464	2465	2465	2468	235
15°	2400	2402	2404	2400	2400	677
25°	2215	2234	2251	2230	2213	1020
35°	1938	1973	1976	1969	1938	1212
45°	1598	1627	1630	1628	1600	1232
55°	1194	1214	1218	1215	1194	1067
65°	736	757	762	756	727	730
75°	306	318	315	312	290	329
85°	49	52	50	49	46	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2472.8	2472.8	2472.8	2472.8	2472.8
2.5°	2472.8	2469.6	2470.4	2471.2	2475.9
5°	2466.5	2464.1	2464.9	2464.9	2468.1
7.5°	2456.3	2455.5	2455.5	2454.7	2457.1
10°	2444.5	2442.9	2443.7	2442.9	2444.5
12.5°	2426.4	2426.4	2427.2	2424.8	2426.4
15°	2400.4	2402.0	2403.6	2399.6	2399.6
17.5°	2367.4	2371.3	2375.3	2368.2	2364.2
20°	2323.3	2332.8	2342.2	2331.2	2321.8
22.5°	2272.2	2288.0	2302.1	2284.8	2272.2
25°	2214.8	2234.5	2251.0	2230.5	2213.2
27.5°	2152.7	2174.7	2190.4	2173.1	2149.5
30°	2085.0	2111.8	2125.9	2109.4	2081.9
32.5°	2012.7	2044.1	2052.8	2042.6	2011.1
35°	1938.0	1972.6	1976.5	1969.4	1938.0
37.5°	1860.1	1893.1	1896.3	1892.3	1860.1
40°	1778.3	1809.0	1809.8	1809.8	1778.3
42.5°	1691.0	1720.9	1720.9	1720.1	1693.4
45°	1598.2	1627.3	1629.6	1628.1	1600.5
47.5°	1506.2	1528.2	1532.1	1529.0	1504.6
50°	1403.1	1425.9	1430.7	1427.5	1408.6
52.5°	1300.9	1322.1	1326.8	1324.5	1303.2
55°	1193.9	1214.4	1217.5	1215.2	1193.9
57.5°	1090.9	1104.3	1107.4	1102.7	1075.9
60°	970.6	989.4	994.9	989.4	964.3
62.5°	854.1	874.6	879.3	871.5	844.7
65°	736.2	756.6	762.1	755.8	726.7
67.5°	624.5	639.4	644.1	637.1	610.3
70°	509.7	528.5	527.7	518.3	494.7
72.5°	396.4	422.4	417.6	412.1	386.2
75°	306.0	317.7	314.6	311.5	290.2
77.5°	218.6	232.8	224.9	225.7	207.6
80°	147.1	160.4	152.6	149.4	140.0
82.5°	93.6	99.1	97.5	96.0	87.3
85°	48.8	51.9	50.3	48.8	45.6
87.5°	18.9	20.4	18.9	18.9	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)