

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: P413244

Luminaire Tested: **24PD-70-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-70-PC3-L830
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

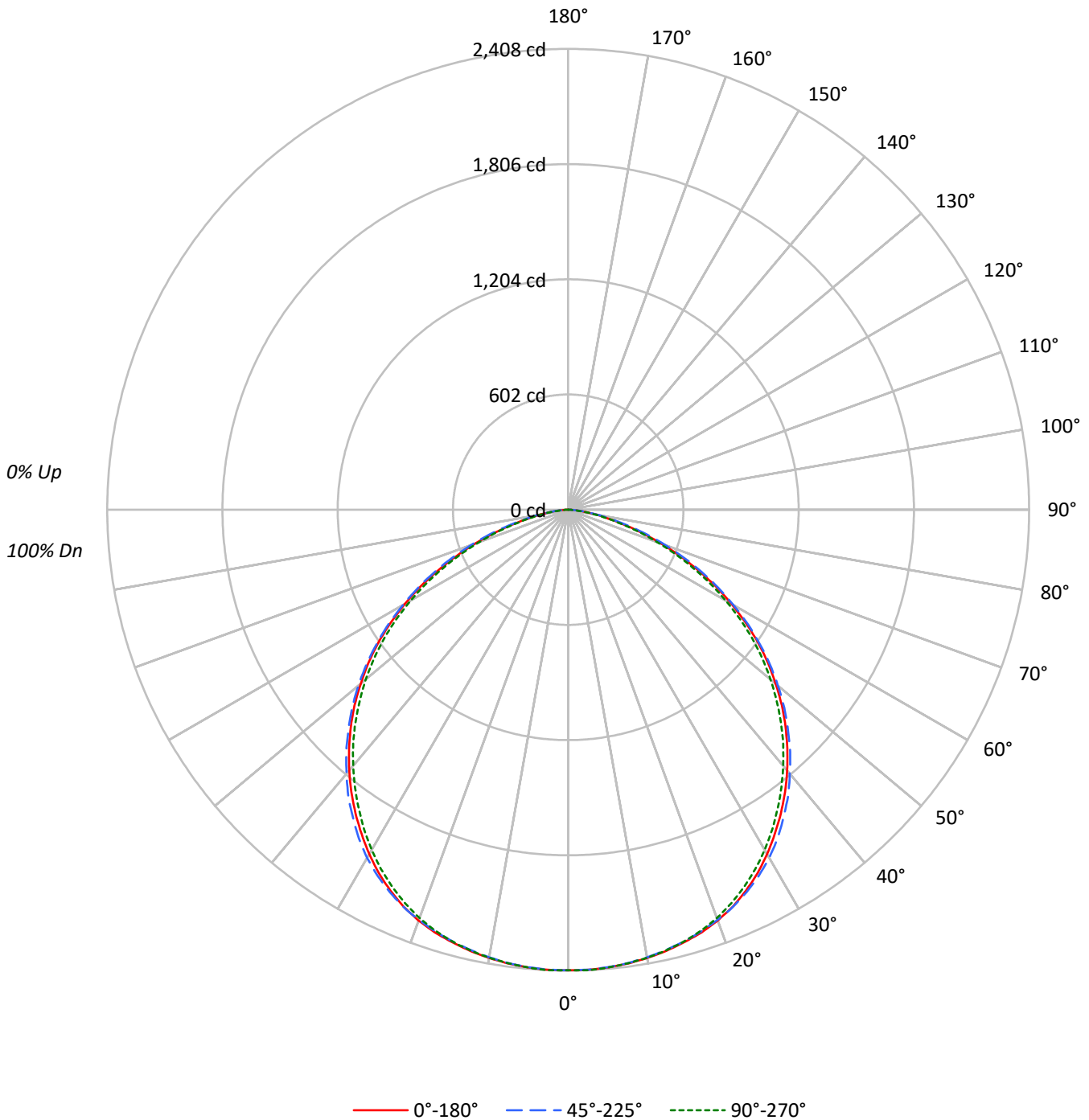
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6579.0 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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	109	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	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3238	3238	3238
5°	3243	3241	3244
10°	3249	3245	3247
15°	3260	3253	3254
20°	3271	3266	3252
25°	3261	3273	3228
30°	3229	3263	3188
35°	3181	3222	3133
40°	3126	3163	3069
45°	3055	3088	2992
50°	2960	2994	2888
55°	2839	2864	2754
60°	2650	2680	2559
65°	2388	2448	2294
70°	2028	2117	1946
75°	1570	1684	1497
80°	1168	1220	1059
85°	721	772	668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.3	3.5
10°-20°	660.1	10.0
20°-30°	1010.9	15.4
30°-40°	1216.1	18.5
40°-50°	1240.0	18.8
50°-60°	1075.0	16.3
60°-70°	745.3	11.3
70°-80°	340.4	5.2
80°-90°	62.9	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°	1899.3	28.9
0°-40°	3115.3	47.4
0°-60°	5430.4	82.5
0°-90°	6579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2407	2407	2407	2407	2407	
5°	2401	2401	2400	2398	2402	228
15°	2340	2340	2336	2334	2336	661
25°	2197	2203	2205	2186	2174	1011
35°	1937	1958	1962	1936	1908	1211
45°	1606	1626	1623	1601	1572	1237
55°	1210	1218	1221	1191	1174	1078
65°	750	766	769	743	721	742
75°	302	319	324	313	288	330
85°	47	48	50	47	43	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2406.9	2406.9	2406.9	2406.9	2406.9
2.5°	2406.9	2406.9	2405.6	2404.3	2408.3
5°	2400.9	2400.9	2399.6	2398.3	2401.6
7.5°	2391.6	2390.9	2389.6	2388.3	2390.3
10°	2378.3	2377.6	2374.9	2374.3	2376.9
12.5°	2361.6	2360.9	2356.9	2356.9	2358.9
15°	2340.3	2339.6	2335.6	2333.6	2336.3
17.5°	2316.3	2315.6	2310.9	2305.6	2306.9
20°	2284.3	2284.3	2280.9	2272.9	2270.9
22.5°	2245.6	2247.6	2247.6	2232.2	2226.2
25°	2196.9	2202.9	2204.9	2185.6	2174.2
27.5°	2141.6	2150.9	2156.2	2131.6	2116.9
30°	2078.2	2093.6	2100.2	2073.6	2052.2
32.5°	2008.9	2028.2	2036.2	2010.2	1982.9
35°	1936.9	1957.6	1961.6	1936.2	1907.5
37.5°	1860.2	1881.5	1886.9	1864.2	1828.9
40°	1779.5	1800.9	1800.9	1782.2	1747.5
42.5°	1694.2	1716.9	1716.2	1693.5	1662.2
45°	1605.5	1625.5	1622.8	1600.8	1572.2
47.5°	1514.2	1526.8	1530.2	1504.2	1476.8
50°	1414.2	1426.8	1430.2	1400.8	1379.5
52.5°	1315.5	1323.5	1328.1	1294.1	1278.8
55°	1210.1	1217.5	1220.8	1190.8	1174.1
57.5°	1098.8	1108.1	1112.1	1082.1	1063.5
60°	984.8	994.8	996.1	968.1	950.8
62.5°	868.8	882.1	884.8	856.8	836.1
65°	750.1	766.1	768.8	742.7	720.7
67.5°	631.4	652.7	653.4	632.1	606.1
70°	515.4	538.7	538.1	520.1	494.7
72.5°	404.7	426.0	430.7	414.0	389.4
75°	302.0	318.7	324.0	313.4	288.0
77.5°	214.7	230.0	234.7	224.7	206.0
80°	150.7	151.4	157.4	149.3	136.7
82.5°	93.3	92.0	94.0	90.7	83.3
85°	46.7	48.0	50.0	47.3	43.3
87.5°	16.0	16.7	18.0	18.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)