

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: P413158

Luminaire Tested: **22PD-85-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413158
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-85-PC3-L927
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

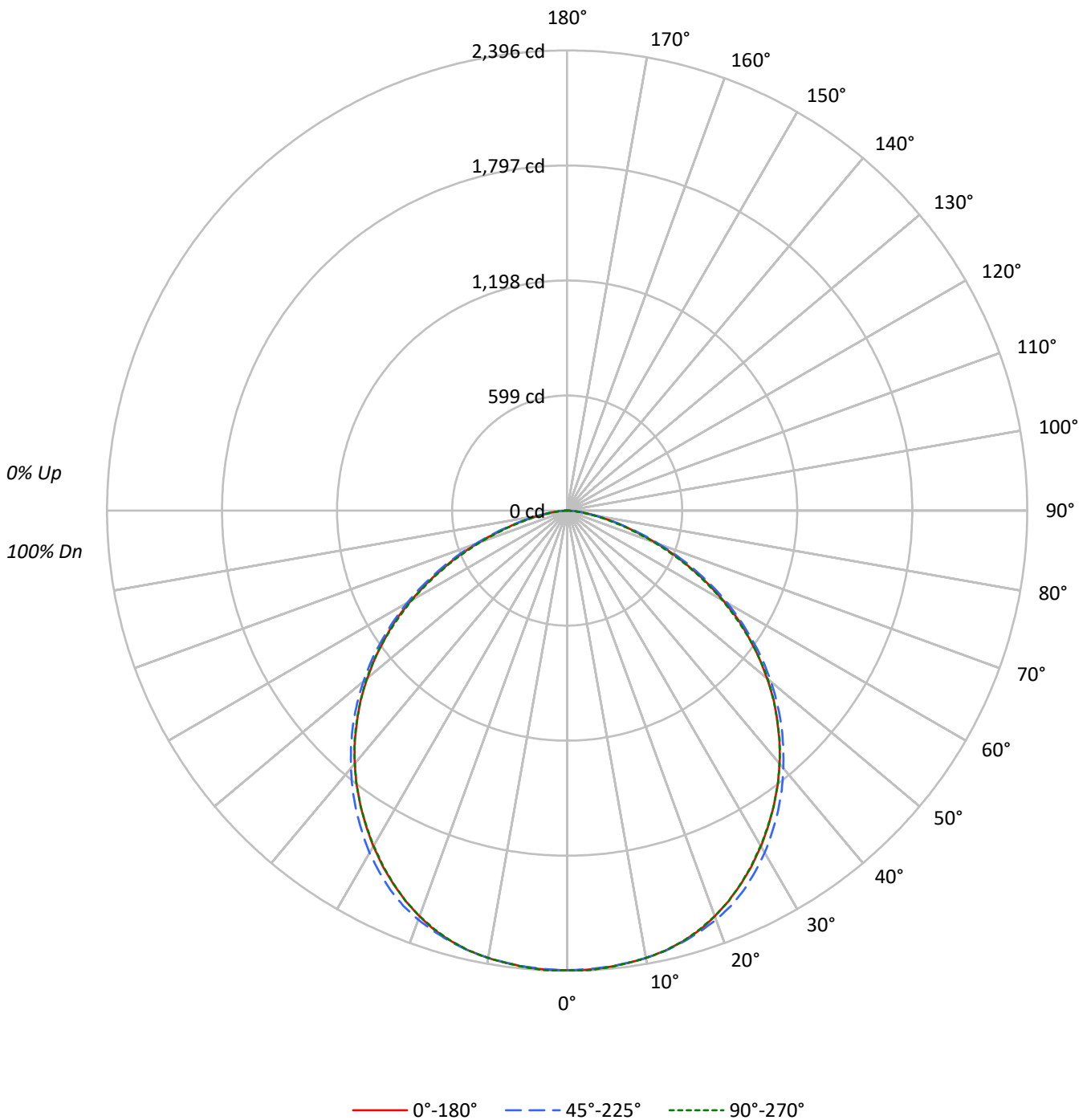
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6429.0 lumens
Efficiency: N/A
Efficacy: 83.2 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): 77.3
Input Voltage (V): NR
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

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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°	6440	6440	6440
5°	6448	6444	6452
10°	6464	6462	6464
15°	6472	6480	6470
20°	6439	6491	6435
25°	6364	6468	6360
30°	6270	6393	6261
35°	6161	6284	6161
40°	6046	6153	6046
45°	5886	6002	5895
50°	5685	5797	5707
55°	5421	5528	5421
60°	5055	5182	5022
65°	4537	4697	4478
70°	3880	4018	3767
75°	3079	3166	2921
80°	2205	2289	2100
85°	1457	1504	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	3.5
10°-20°	655.8	10.2
20°-30°	995.0	15.5
30°-40°	1188.3	18.5
40°-50°	1208.5	18.8
50°-60°	1045.3	16.3
60°-70°	719.3	11.2
70°-80°	326.4	5.1
80°-90°	63.2	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°	1877.9	29.2
0°-40°	3066.2	47.7
0°-60°	5320.1	82.8
0°-90°	6429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2393	2393	2393	2393	2393	
5°	2387	2385	2386	2386	2389	227
15°	2323	2325	2326	2322	2322	655
25°	2144	2162	2178	2159	2142	987
35°	1876	1909	1913	1906	1876	1173
45°	1547	1575	1577	1576	1549	1193
55°	1156	1175	1178	1176	1156	1032
65°	712	732	738	732	703	707
75°	296	308	304	301	281	318
85°	47	50	49	47	44	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2393.1	2393.1	2393.1	2393.1	2393.1
2.5°	2393.1	2390.1	2390.8	2391.6	2396.2
5°	2387.0	2384.7	2385.5	2385.5	2388.6
7.5°	2377.1	2376.4	2376.4	2375.6	2377.9
10°	2365.7	2364.2	2365.0	2364.2	2365.7
12.5°	2348.2	2348.2	2349.0	2346.7	2348.2
15°	2323.1	2324.6	2326.1	2322.3	2322.3
17.5°	2291.1	2294.9	2298.7	2291.9	2288.1
20°	2248.5	2257.6	2266.8	2256.1	2247.0
22.5°	2199.0	2214.2	2227.9	2211.2	2199.0
25°	2143.5	2162.5	2178.5	2158.7	2141.9
27.5°	2083.3	2104.6	2119.9	2103.1	2080.3
30°	2017.9	2043.7	2057.4	2041.5	2014.8
32.5°	1947.8	1978.3	1986.7	1976.8	1946.3
35°	1875.5	1909.0	1912.8	1906.0	1875.5
37.5°	1800.2	1832.1	1835.2	1831.4	1800.2
40°	1721.0	1750.7	1751.5	1751.5	1721.0
42.5°	1636.5	1665.4	1665.4	1664.7	1638.8
45°	1546.7	1574.9	1577.1	1575.6	1549.0
47.5°	1457.6	1479.0	1482.8	1479.7	1456.1
50°	1357.9	1380.0	1384.6	1381.5	1363.3
52.5°	1259.0	1279.5	1284.1	1281.8	1261.3
55°	1155.5	1175.2	1178.3	1176.0	1155.5
57.5°	1055.7	1068.7	1071.7	1067.2	1041.3
60°	939.3	957.6	962.9	957.6	933.2
62.5°	826.6	846.4	851.0	843.4	817.5
65°	712.5	732.2	737.6	731.5	703.3
67.5°	604.4	618.8	623.4	616.5	590.7
70°	493.2	511.5	510.7	501.6	478.8
72.5°	383.6	408.7	404.2	398.9	373.7
75°	296.1	307.5	304.5	301.4	280.9
77.5°	211.6	225.3	217.7	218.5	200.9
80°	142.3	155.3	147.7	144.6	135.5
82.5°	90.6	95.9	94.4	92.9	84.5
85°	47.2	50.2	48.7	47.2	44.1
87.5°	18.3	19.8	18.3	18.3	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)