

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: P413131

Luminaire Tested: **22PD-70-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413131
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-L927
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

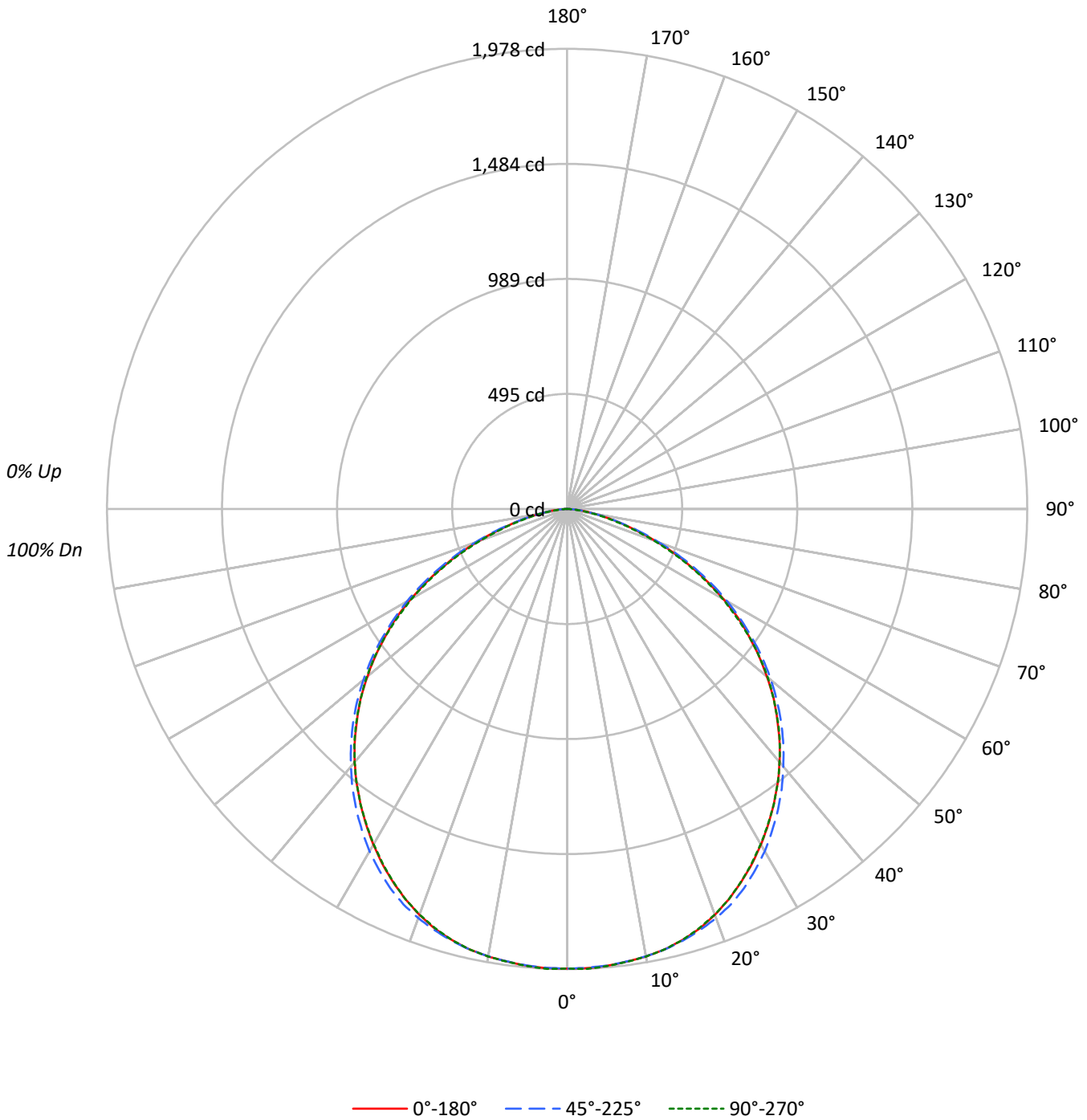
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5308.0 lumens
Efficiency: N/A
Efficacy: 84.3 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°	5317	5317	5317
5°	5324	5320	5327
10°	5337	5335	5337
15°	5343	5350	5342
20°	5316	5359	5313
25°	5255	5340	5251
30°	5177	5278	5169
35°	5087	5188	5087
40°	4991	5080	4991
45°	4860	4955	4867
50°	4694	4785	4712
55°	4476	4564	4476
60°	4174	4279	4147
65°	3745	3878	3698
70°	3204	3318	3110
75°	2542	2614	2411
80°	1821	1889	1734
85°	1204	1241	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	3.5
10°-20°	541.5	10.2
20°-30°	821.5	15.5
30°-40°	981.1	18.5
40°-50°	997.8	18.8
50°-60°	863.1	16.3
60°-70°	593.9	11.2
70°-80°	269.5	5.1
80°-90°	52.2	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°	1550.5	29.2
0°-40°	2531.6	47.7
0°-60°	4392.4	82.8
0°-90°	5308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1976	1976	1976	1976	1976	
5°	1971	1969	1970	1970	1972	188
15°	1918	1919	1920	1917	1917	541
25°	1770	1785	1799	1782	1768	815
35°	1548	1576	1579	1574	1548	969
45°	1277	1300	1302	1301	1279	985
55°	954	970	973	971	954	852
65°	588	605	609	604	581	584
75°	244	254	251	249	232	263
85°	39	42	40	39	36	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.8	1975.8	1975.8	1975.8	1975.8
2.5°	1975.8	1973.3	1974.0	1974.6	1978.4
5°	1970.8	1968.9	1969.6	1969.6	1972.1
7.5°	1962.6	1962.0	1962.0	1961.4	1963.3
10°	1953.2	1952.0	1952.6	1952.0	1953.2
12.5°	1938.8	1938.8	1939.4	1937.5	1938.8
15°	1918.0	1919.3	1920.5	1917.4	1917.4
17.5°	1891.6	1894.8	1897.9	1892.3	1889.1
20°	1856.4	1864.0	1871.5	1862.7	1855.2
22.5°	1815.6	1828.2	1839.5	1825.6	1815.6
25°	1769.7	1785.4	1798.6	1782.3	1768.5
27.5°	1720.1	1737.7	1750.2	1736.4	1717.5
30°	1666.0	1687.4	1698.7	1685.5	1663.5
32.5°	1608.2	1633.3	1640.3	1632.1	1606.9
35°	1548.5	1576.1	1579.3	1573.6	1548.5
37.5°	1486.3	1512.7	1515.2	1512.0	1486.3
40°	1420.9	1445.4	1446.1	1446.1	1420.9
42.5°	1351.2	1375.0	1375.0	1374.4	1353.0
45°	1277.0	1300.3	1302.1	1300.9	1278.9
47.5°	1203.5	1221.1	1224.2	1221.7	1202.2
50°	1121.2	1139.4	1143.1	1140.6	1125.6
52.5°	1039.5	1056.4	1060.2	1058.3	1041.3
55°	954.0	970.3	972.8	971.0	954.0
57.5°	871.7	882.3	884.9	881.1	859.7
60°	775.5	790.6	795.0	790.6	770.5
62.5°	682.5	698.8	702.6	696.3	675.0
65°	588.2	604.6	609.0	603.9	580.7
67.5°	499.0	510.9	514.7	509.0	487.7
70°	407.2	422.3	421.7	414.1	395.3
72.5°	316.7	337.5	333.7	329.3	308.6
75°	244.5	253.9	251.4	248.9	231.9
77.5°	174.7	186.0	179.7	180.4	165.9
80°	117.5	128.2	121.9	119.4	111.9
82.5°	74.8	79.2	77.9	76.7	69.8
85°	39.0	41.5	40.2	39.0	36.5
87.5°	15.1	16.3	15.1	15.1	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)