

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: P413134

Luminaire Tested: **22PD-70-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413134
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-L940
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

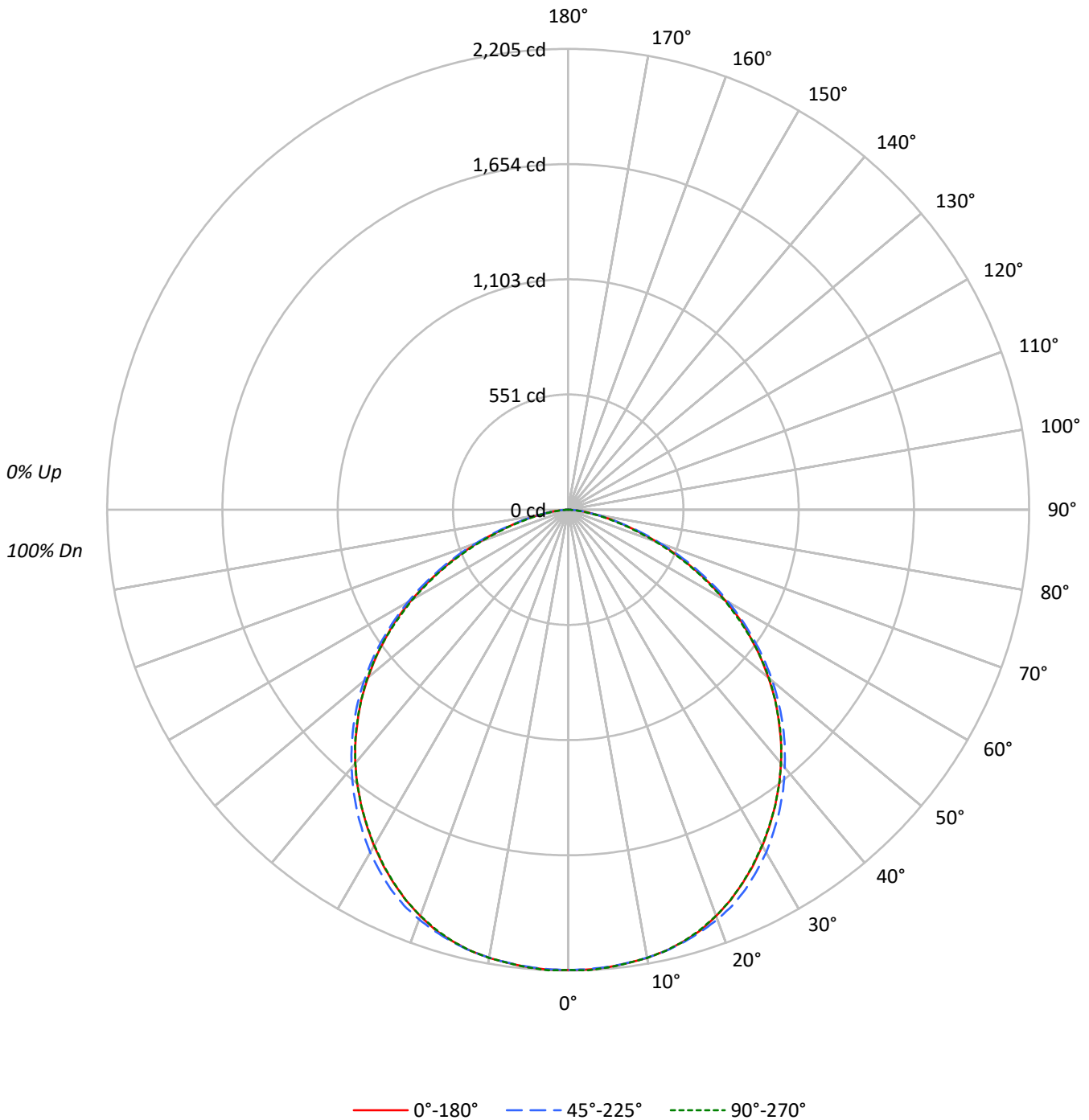
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5917.0 lumens
Efficiency: N/A
Efficacy: 93.9 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

TEST NUMBER: P413134
CATALOG NUMBER: 22PD-70-PC3-L940

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°	5927	5927	5927
5°	5934	5931	5938
10°	5949	5948	5949
15°	5957	5964	5955
20°	5926	5974	5922
25°	5858	5953	5853
30°	5771	5884	5762
35°	5671	5783	5671
40°	5564	5663	5564
45°	5417	5524	5425
50°	5232	5335	5253
55°	4989	5088	4989
60°	4653	4769	4623
65°	4175	4322	4122
70°	3572	3699	3467
75°	2833	2913	2688
80°	2030	2106	1932
85°	1340	1383	1254



TEST NUMBER: P413134

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	3.5
10°-20°	603.6	10.2
20°-30°	915.8	15.5
30°-40°	1093.7	18.5
40°-50°	1112.3	18.8
50°-60°	962.1	16.3
60°-70°	662.0	11.2
70°-80°	300.5	5.1
80°-90°	58.2	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°	1728.4	29.2
0°-40°	2822.0	47.7
0°-60°	4896.4	82.8
0°-90°	5917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2202	2202	2202	2202	2202	
5°	2197	2195	2196	2196	2198	209
15°	2138	2140	2141	2137	2137	603
25°	1973	1990	2005	1987	1971	909
35°	1726	1757	1760	1754	1726	1080
45°	1424	1449	1452	1450	1426	1098
55°	1063	1082	1084	1082	1063	950
65°	656	674	679	673	647	651
75°	272	283	280	277	258	293
85°	43	46	45	43	41	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2202.5	2202.5	2202.5	2202.5	2202.5
2.5°	2202.5	2199.7	2200.4	2201.1	2205.3
5°	2196.9	2194.8	2195.5	2195.5	2198.3
7.5°	2187.8	2187.1	2187.1	2186.4	2188.5
10°	2177.3	2175.9	2176.6	2175.9	2177.3
12.5°	2161.2	2161.2	2161.9	2159.8	2161.2
15°	2138.1	2139.5	2140.9	2137.4	2137.4
17.5°	2108.7	2112.2	2115.7	2109.4	2105.9
20°	2069.4	2077.8	2086.2	2076.4	2068.0
22.5°	2023.9	2037.9	2050.5	2035.1	2023.9
25°	1972.8	1990.3	2005.0	1986.8	1971.4
27.5°	1917.4	1937.0	1951.0	1935.6	1914.6
30°	1857.2	1881.0	1893.6	1878.9	1854.4
32.5°	1792.7	1820.7	1828.4	1819.3	1791.3
35°	1726.2	1757.0	1760.5	1754.2	1726.2
37.5°	1656.8	1686.2	1689.0	1685.5	1656.8
40°	1583.9	1611.3	1612.0	1612.0	1583.9
42.5°	1506.2	1532.8	1532.8	1532.1	1508.3
45°	1423.5	1449.4	1451.5	1450.1	1425.6
47.5°	1341.6	1361.2	1364.7	1361.9	1340.2
50°	1249.8	1270.1	1274.3	1271.5	1254.7
52.5°	1158.7	1177.6	1181.8	1179.7	1160.8
55°	1063.4	1081.7	1084.5	1082.4	1063.4
57.5°	971.7	983.6	986.4	982.2	958.4
60°	864.5	881.3	886.2	881.3	858.9
62.5°	760.8	779.0	783.2	776.2	752.4
65°	655.7	673.9	678.8	673.2	647.3
67.5°	556.2	569.5	573.8	567.4	543.6
70°	454.0	470.8	470.1	461.7	440.6
72.5°	353.1	376.2	372.0	367.1	344.0
75°	272.5	283.0	280.2	277.4	258.5
77.5°	194.8	207.4	200.4	201.1	184.9
80°	131.0	142.9	135.9	133.1	124.7
82.5°	83.4	88.3	86.9	85.5	77.8
85°	43.4	46.2	44.8	43.4	40.6
87.5°	16.8	18.2	16.8	16.8	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)