

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: P413135

Luminaire Tested: **22PD-70-PC3-L950**

Issue Date: 9/15/2020



**Test Information**

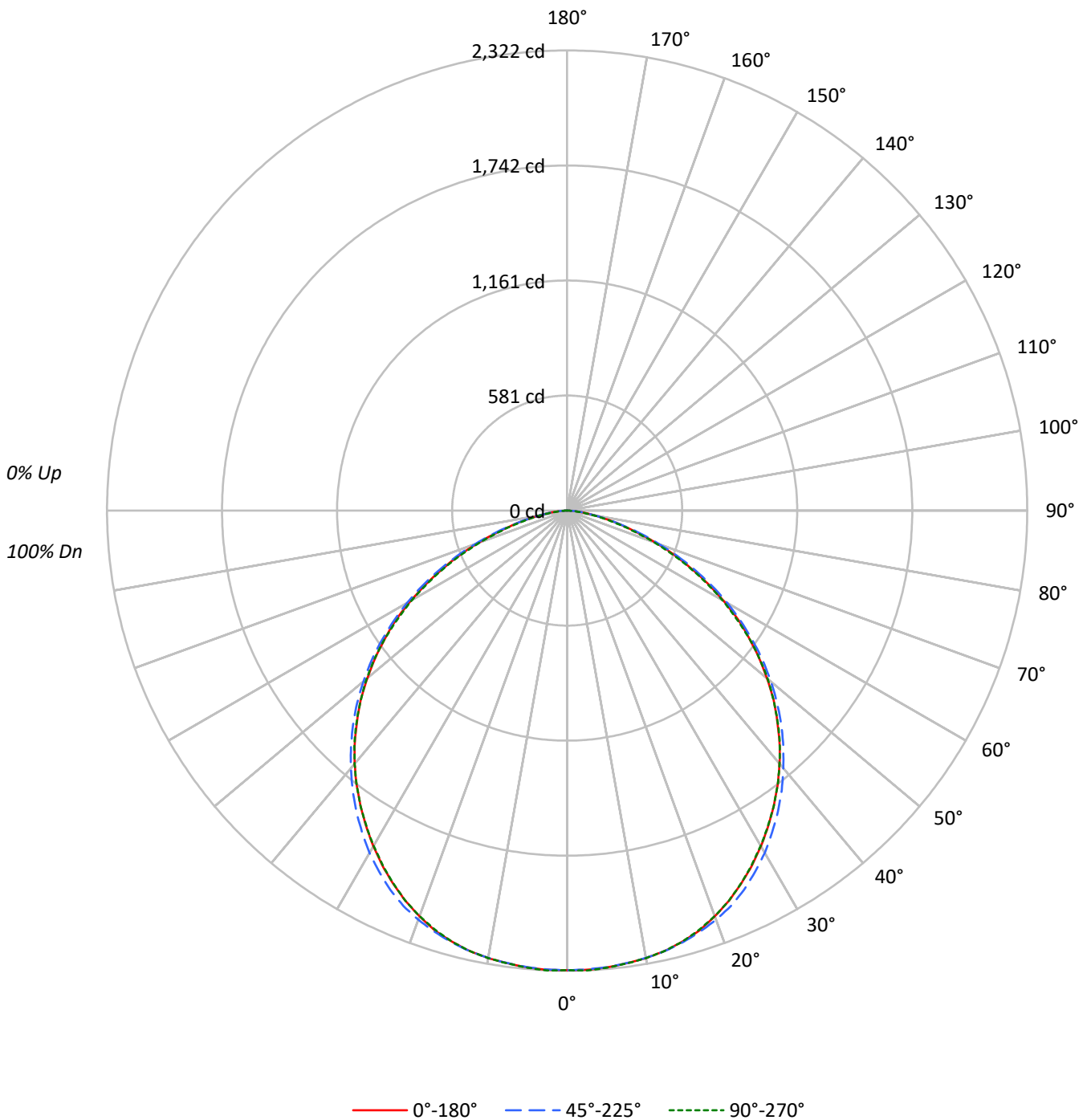
Test Method: LM-79-08  
Report Number: P413135  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-70-PC3-L950  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6231.0 lumens  
Efficiency: N/A  
Efficacy: 98.9 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: P413135  
CATALOG NUMBER: 22PD-70-PC3-L950

### 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°	6241	6241	6241
5°	6249	6245	6253
10°	6265	6263	6265
15°	6272	6281	6271
20°	6241	6292	6237
25°	6168	6269	6164
30°	6077	6196	6068
35°	5972	6090	5972
40°	5859	5963	5859
45°	5705	5817	5713
50°	5510	5618	5532
55°	5254	5358	5254
60°	4900	5022	4868
65°	4397	4552	4341
70°	3761	3895	3651
75°	2984	3068	2830
80°	2139	2218	2035
85°	1411	1457	1321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.1	3.5
10°-20°	635.6	10.2
20°-30°	964.4	15.5
30°-40°	1151.7	18.5
40°-50°	1171.3	18.8
50°-60°	1013.1	16.3
60°-70°	697.2	11.2
70°-80°	316.4	5.1
80°-90°	61.2	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°	1820.1	29.2
0°-40°	2971.8	47.7
0°-60°	5156.2	82.8
0°-90°	6231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2319	2319	2319	2319	2319	
5°	2314	2311	2312	2312	2315	220
15°	2252	2253	2254	2251	2251	635
25°	2077	2096	2111	2092	2076	957
35°	1818	1850	1854	1847	1818	1137
45°	1499	1526	1529	1527	1501	1156
55°	1120	1139	1142	1140	1120	1001
65°	690	710	715	709	682	685
75°	287	298	295	292	272	309
85°	46	49	47	46	43	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2319.4	2319.4	2319.4	2319.4	2319.4
2.5°	2319.4	2316.5	2317.2	2317.9	2322.4
5°	2313.5	2311.3	2312.0	2312.0	2315.0
7.5°	2303.9	2303.2	2303.2	2302.5	2304.7
10°	2292.9	2291.4	2292.1	2291.4	2292.9
12.5°	2275.9	2275.9	2276.6	2274.4	2275.9
15°	2251.5	2253.0	2254.5	2250.8	2250.8
17.5°	2220.6	2224.3	2227.9	2221.3	2217.6
20°	2179.2	2188.1	2197.0	2186.6	2177.8
22.5°	2131.3	2146.1	2159.3	2143.1	2131.3
25°	2077.4	2095.9	2111.4	2092.2	2076.0
27.5°	2019.2	2039.8	2054.6	2038.3	2016.2
30°	1955.7	1980.8	1994.1	1978.6	1952.8
32.5°	1887.8	1917.4	1925.5	1915.9	1886.4
35°	1817.8	1850.2	1853.9	1847.3	1817.8
37.5°	1744.7	1775.7	1778.7	1775.0	1744.7
40°	1668.0	1696.8	1697.5	1697.5	1668.0
42.5°	1586.1	1614.1	1614.1	1613.4	1588.3
45°	1499.1	1526.4	1528.6	1527.1	1501.3
47.5°	1412.7	1433.4	1437.1	1434.1	1411.3
50°	1316.1	1337.5	1341.9	1339.0	1321.3
52.5°	1220.2	1240.1	1244.5	1242.3	1222.4
55°	1119.9	1139.1	1142.0	1139.8	1119.9
57.5°	1023.2	1035.8	1038.7	1034.3	1009.2
60°	910.4	928.1	933.2	928.1	904.5
62.5°	801.2	820.4	824.8	817.4	792.3
65°	690.5	709.7	714.9	709.0	681.7
67.5°	585.8	599.8	604.2	597.6	572.5
70°	478.0	495.8	495.0	486.2	464.0
72.5°	371.8	396.2	391.7	386.6	362.2
75°	287.0	298.0	295.1	292.1	272.2
77.5°	205.1	218.4	211.0	211.7	194.8
80°	138.0	150.5	143.1	140.2	131.3
82.5°	87.8	93.0	91.5	90.0	81.9
85°	45.7	48.7	47.2	45.7	42.8
87.5°	17.7	19.2	17.7	17.7	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)