

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: P413143

Luminaire Tested: **22PD-75-PC3-L940**

Issue Date: 9/15/2020



**Test Information**

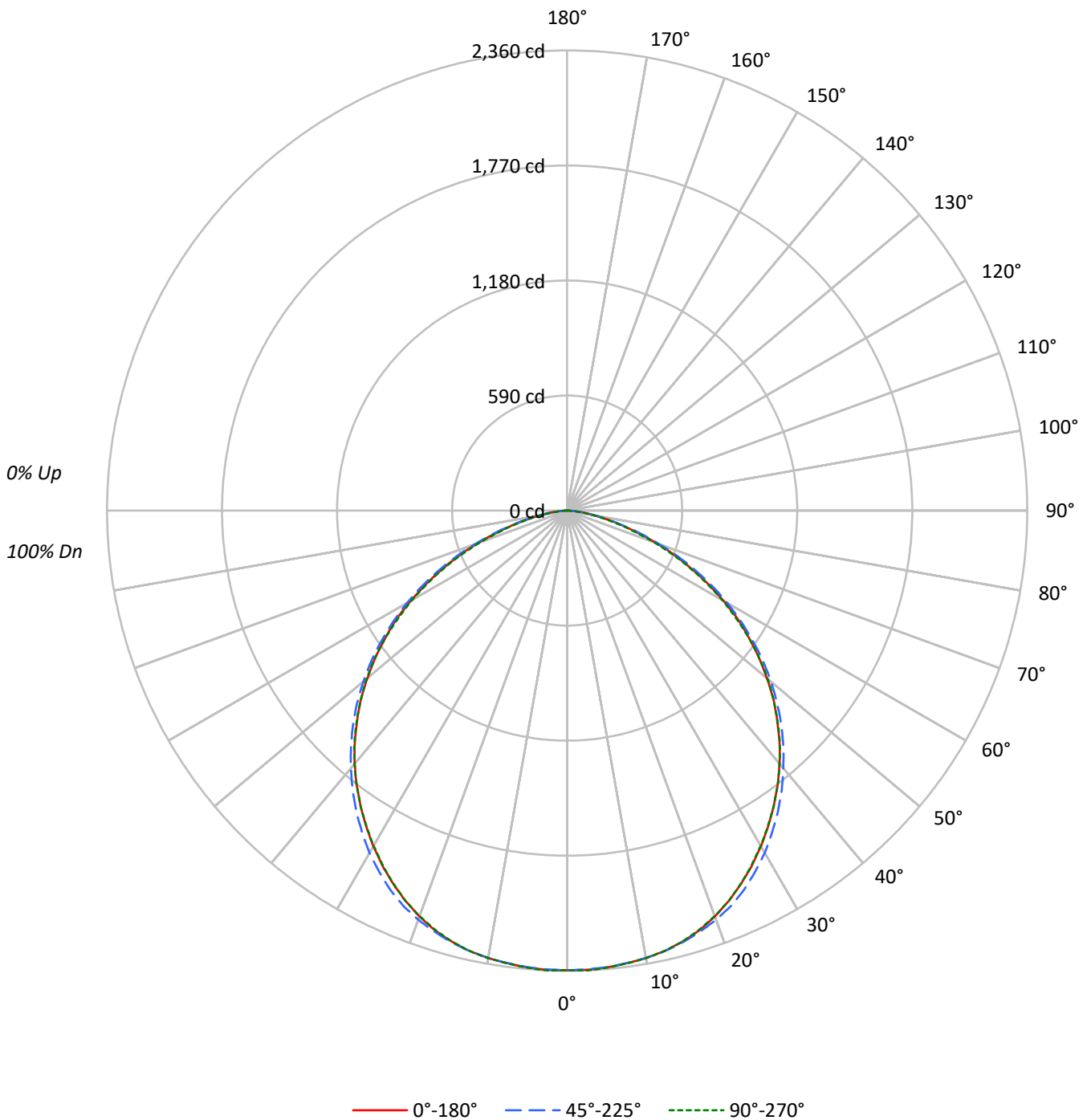
Test Method: LM-79-08  
Report Number: P413143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-75-PC3-L940  
Description: 7500 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: 6333.0 lumens  
Efficiency: N/A  
Efficacy: 93.8 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): 67.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	6344	6344	6344
5°	6352	6348	6356
10°	6368	6366	6368
15°	6375	6384	6373
20°	6343	6394	6338
25°	6269	6372	6265
30°	6176	6298	6167
35°	6069	6190	6069
40°	5955	6061	5955
45°	5798	5912	5807
50°	5600	5710	5622
55°	5340	5446	5340
60°	4980	5105	4948
65°	4469	4627	4411
70°	3823	3958	3710
75°	3033	3118	2877
80°	2173	2255	2069
85°	1436	1482	1343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.7	3.5
10°-20°	646.1	10.2
20°-30°	980.2	15.5
30°-40°	1170.6	18.5
40°-50°	1190.5	18.8
50°-60°	1029.7	16.3
60°-70°	708.6	11.2
70°-80°	321.6	5.1
80°-90°	62.3	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°	1849.9	29.2
0°-40°	3020.4	47.7
0°-60°	5240.6	82.8
0°-90°	6333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6333.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2357	2357	2357	2357	2357	
5°	2351	2349	2350	2350	2353	224
15°	2288	2290	2291	2288	2288	645
25°	2112	2130	2146	2126	2110	973
35°	1848	1880	1884	1878	1848	1156
45°	1524	1551	1554	1552	1526	1175
55°	1138	1158	1161	1158	1138	1017
65°	702	721	727	721	693	696
75°	292	303	300	297	277	314
85°	46	50	48	46	44	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2357.4	2357.4	2357.4	2357.4	2357.4
2.5°	2357.4	2354.4	2355.1	2355.9	2360.4
5°	2351.4	2349.1	2349.9	2349.9	2352.9
7.5°	2341.6	2340.9	2340.9	2340.1	2342.4
10°	2330.4	2328.9	2329.6	2328.9	2330.4
12.5°	2313.1	2313.1	2313.9	2311.6	2313.1
15°	2288.4	2289.9	2291.4	2287.7	2287.7
17.5°	2256.9	2260.7	2264.4	2257.7	2253.9
20°	2214.9	2223.9	2232.9	2222.4	2213.4
22.5°	2166.2	2181.2	2194.7	2178.2	2166.2
25°	2111.5	2130.2	2145.9	2126.4	2110.0
27.5°	2052.2	2073.2	2088.2	2071.7	2049.2
30°	1987.7	2013.2	2026.7	2011.0	1984.7
32.5°	1918.8	1948.7	1957.0	1947.2	1917.3
35°	1847.5	1880.5	1884.3	1877.5	1847.5
37.5°	1773.3	1804.8	1807.8	1804.0	1773.3
40°	1695.3	1724.6	1725.3	1725.3	1695.3
42.5°	1612.1	1640.6	1640.6	1639.8	1614.3
45°	1523.6	1551.3	1553.6	1552.1	1525.9
47.5°	1435.9	1456.9	1460.6	1457.6	1434.4
50°	1337.7	1359.4	1363.9	1360.9	1342.9
52.5°	1240.2	1260.4	1264.9	1262.7	1242.4
55°	1138.2	1157.7	1160.7	1158.4	1138.2
57.5°	1040.0	1052.7	1055.7	1051.2	1025.7
60°	925.3	943.3	948.5	943.3	919.3
62.5°	814.3	833.8	838.3	830.8	805.3
65°	701.8	721.3	726.6	720.6	692.8
67.5°	595.3	609.6	614.1	607.3	581.8
70°	485.9	503.9	503.1	494.1	471.6
72.5°	377.9	402.6	398.1	392.9	368.2
75°	291.7	302.9	299.9	296.9	276.7
77.5°	208.4	221.9	214.4	215.2	197.9
80°	140.2	153.0	145.5	142.5	133.5
82.5°	89.2	94.5	93.0	91.5	83.2
85°	46.5	49.5	48.0	46.5	43.5
87.5°	18.0	19.5	18.0	18.0	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)