

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: P412810

Luminaire Tested: **22PD-80-PP3-L940**

Issue Date: 9/15/2020



**Test Information**

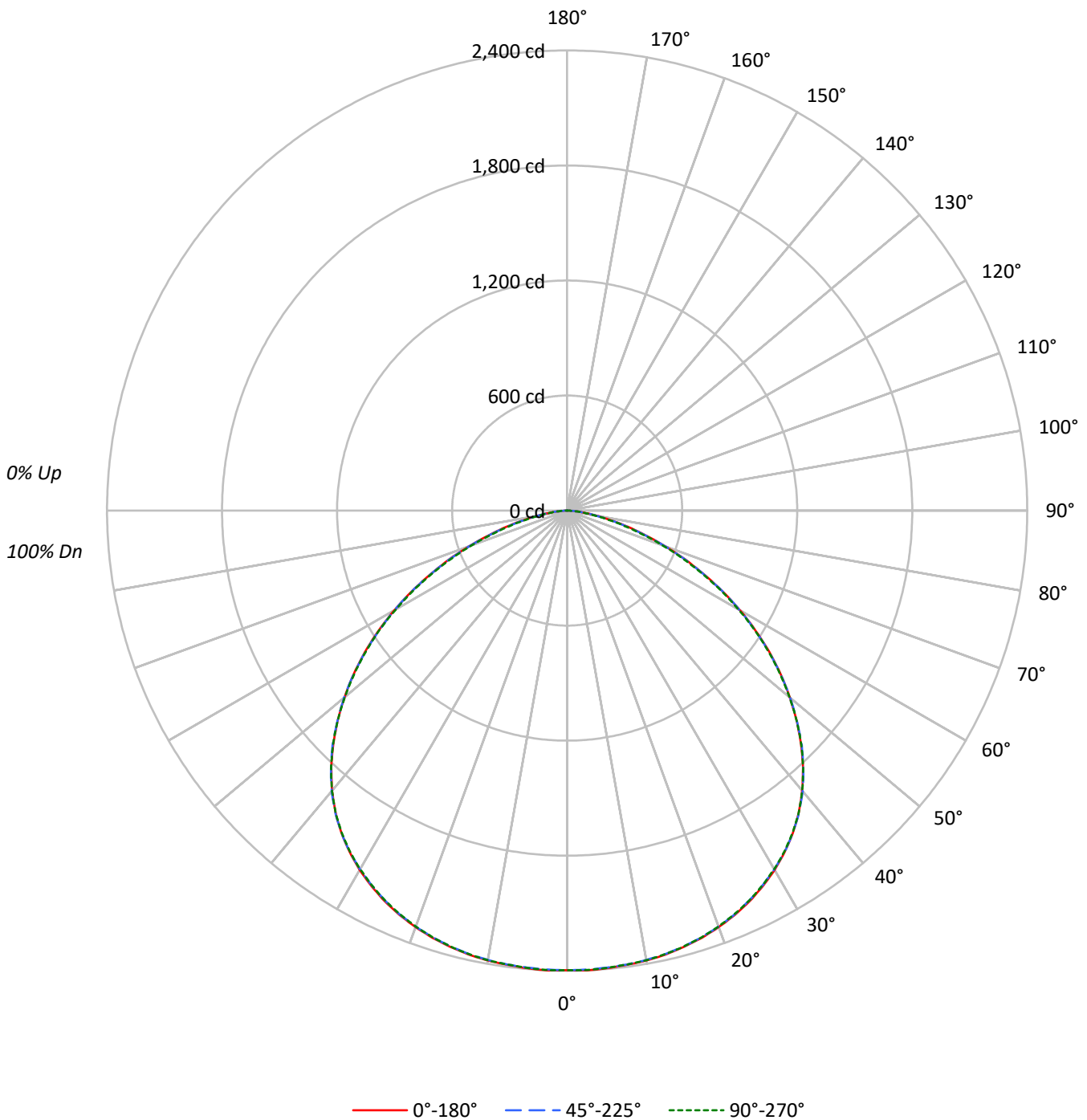
Test Method: LM-79-08  
Report Number: P412810  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-80-PP3-L940  
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6878.0 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 72.6  
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	47		57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6451	6451	6451
5°	6471	6463	6467
10°	6511	6503	6507
15°	6563	6556	6556
20°	6620	6613	6611
25°	6678	6666	6666
30°	6725	6713	6710
35°	6745	6745	6737
40°	6700	6714	6700
45°	6567	6586	6576
50°	6347	6357	6340
55°	6042	6027	6016
60°	5609	5596	5553
65°	5010	5005	4949
70°	4282	4257	4163
75°	3412	3313	3213
80°	2431	2382	2258
85°	1581	1581	1531



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.0	3.3
10°-20°	665.0	9.7
20°-30°	1035.5	15.1
30°-40°	1281.6	18.6
40°-50°	1328.9	19.3
50°-60°	1145.5	16.7
60°-70°	778.8	11.3
70°-80°	348.5	5.1
80°-90°	66.4	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°	1928.5	28.0
0°-40°	3210.1	46.7
0°-60°	5684.4	82.6
0°-90°	6878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6878.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2397	2397	2397	2397	2397	
5°	2396	2391	2392	2392	2394	228
15°	2356	2352	2353	2352	2353	666
25°	2249	2246	2245	2244	2245	1037
35°	2053	2051	2053	2050	2051	1282
45°	1726	1724	1730	1726	1728	1328
55°	1288	1283	1285	1282	1282	1148
65°	787	793	786	784	777	781
75°	328	329	319	317	309	353
85°	51	53	51	50	50	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2397.3	2397.3	2397.3	2397.3	2397.3
2.5°	2400.5	2395.7	2395.7	2396.5	2398.9
5°	2395.7	2390.9	2392.5	2391.7	2394.1
7.5°	2389.3	2385.3	2387.7	2386.1	2387.7
10°	2382.9	2378.9	2379.7	2378.9	2381.3
12.5°	2371.7	2366.9	2368.5	2368.5	2369.3
15°	2355.7	2351.7	2353.3	2351.7	2353.3
17.5°	2336.5	2331.7	2332.5	2331.7	2333.3
20°	2311.6	2308.4	2309.2	2307.6	2308.4
22.5°	2283.6	2279.6	2280.4	2278.8	2278.8
25°	2249.2	2246.0	2245.2	2244.4	2245.2
27.5°	2209.2	2205.2	2205.2	2204.4	2204.4
30°	2164.4	2160.4	2160.4	2159.6	2159.6
32.5°	2111.5	2109.9	2110.7	2109.1	2108.3
35°	2053.1	2050.7	2053.1	2049.9	2050.7
37.5°	1985.1	1981.9	1986.7	1983.5	1984.3
40°	1907.4	1905.8	1911.4	1909.0	1907.4
42.5°	1821.0	1821.0	1823.4	1824.2	1822.6
45°	1725.7	1724.1	1730.5	1726.5	1728.1
47.5°	1623.3	1620.9	1625.7	1624.9	1624.1
50°	1516.0	1514.4	1518.4	1514.4	1514.4
52.5°	1404.8	1404.0	1404.8	1400.8	1400.0
55°	1287.9	1283.1	1284.7	1282.3	1282.3
57.5°	1166.2	1160.6	1161.4	1160.6	1161.4
60°	1042.2	1040.6	1039.8	1035.8	1031.8
62.5°	914.9	916.5	915.7	910.1	906.1
65°	786.8	793.2	786.0	783.6	777.2
67.5°	666.0	668.4	663.6	658.0	650.8
70°	544.3	549.1	541.1	535.5	529.1
72.5°	428.2	431.4	424.2	421.0	413.0
75°	328.2	329.0	318.6	317.0	309.0
77.5°	233.7	236.9	228.9	228.9	220.9
80°	156.9	162.5	153.7	151.3	145.7
82.5°	98.5	99.3	96.9	94.5	92.0
85°	51.2	52.8	51.2	49.6	49.6
87.5°	19.2	20.0	19.2	18.4	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)