

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: P413147

Luminaire Tested: **22PD-80-PC3-L840**

Issue Date: 9/15/2020



**Test Information**

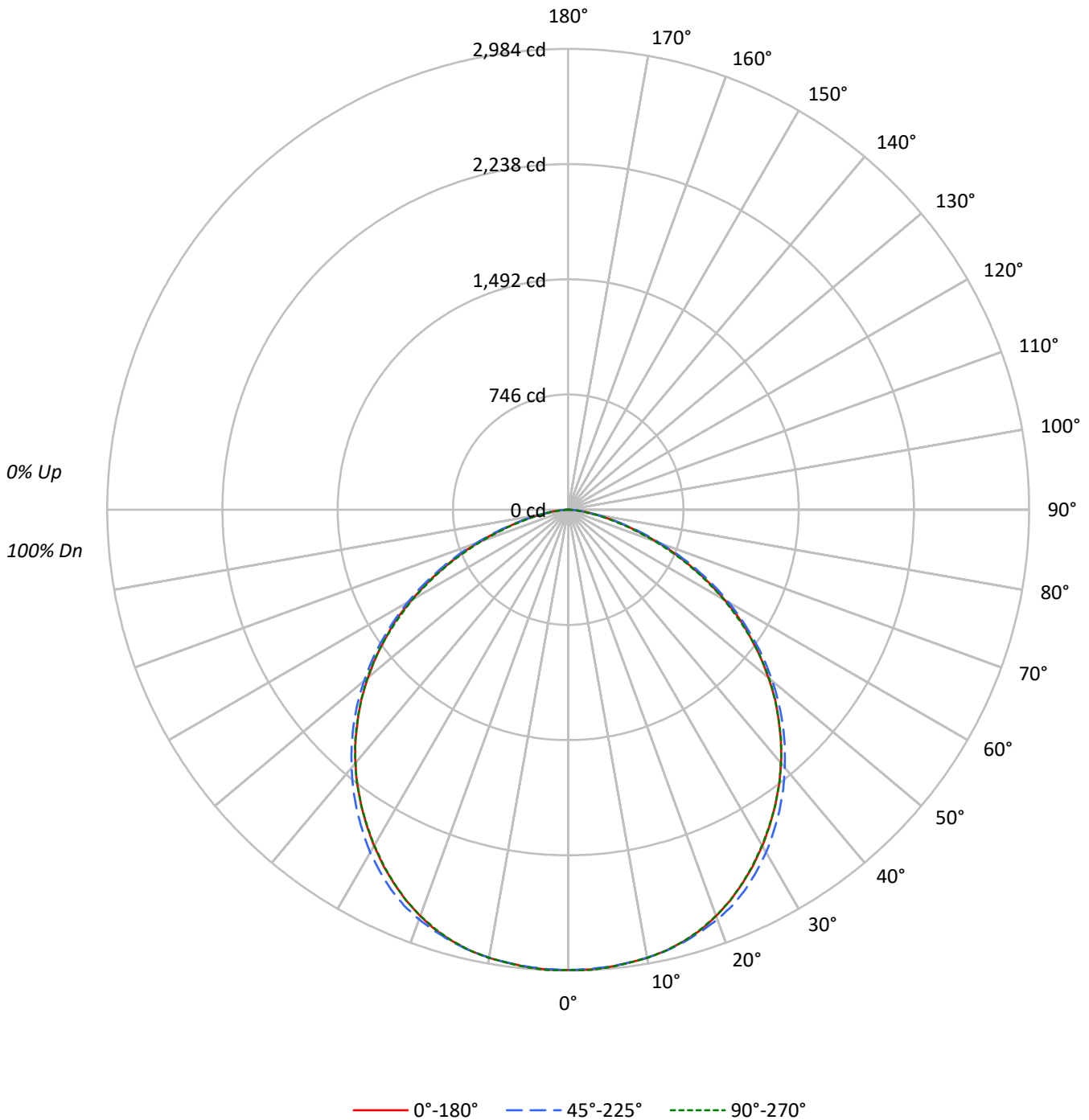
Test Method: LM-79-08  
Report Number: P413147  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-80-PC3-L840  
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8007.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 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): 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	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°	8020	8020	8020
5°	8031	8025	8036
10°	8051	8048	8051
15°	8060	8071	8058
20°	8019	8084	8014
25°	7926	8056	7921
30°	7809	7962	7797
35°	7674	7826	7674
40°	7529	7663	7529
45°	7331	7475	7342
50°	7080	7219	7108
55°	6752	6885	6752
60°	6296	6454	6255
65°	5650	5849	5578
70°	4833	5005	4692
75°	3834	3943	3637
80°	2748	2850	2614
85°	1815	1874	1698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.8	3.5
10°-20°	816.8	10.2
20°-30°	1239.3	15.5
30°-40°	1480.0	18.5
40°-50°	1505.1	18.8
50°-60°	1301.9	16.3
60°-70°	895.9	11.2
70°-80°	406.6	5.1
80°-90°	78.7	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°	2338.9	29.2
0°-40°	3818.8	47.7
0°-60°	6625.9	82.8
0°-90°	8007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8007.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2980	2980	2980	2980	2980	
5°	2973	2970	2971	2971	2975	283
15°	2893	2895	2897	2892	2892	816
25°	2670	2693	2713	2688	2668	1230
35°	2336	2378	2382	2374	2336	1461
45°	1926	1961	1964	1962	1929	1486
55°	1439	1464	1468	1465	1439	1286
65°	887	912	919	911	876	880
75°	369	383	379	375	350	397
85°	59	63	61	59	55	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2980.5	2980.5	2980.5	2980.5	2980.5
2.5°	2980.5	2976.7	2977.7	2978.6	2984.3
5°	2972.9	2970.1	2971.0	2971.0	2974.8
7.5°	2960.6	2959.7	2959.7	2958.7	2961.6
10°	2946.4	2944.5	2945.4	2944.5	2946.4
12.5°	2924.6	2924.6	2925.5	2922.7	2924.6
15°	2893.3	2895.2	2897.1	2892.3	2892.3
17.5°	2853.5	2858.2	2863.0	2854.4	2849.7
20°	2800.4	2811.8	2823.1	2809.9	2798.5
22.5°	2738.8	2757.7	2774.8	2753.9	2738.8
25°	2669.6	2693.3	2713.2	2688.5	2667.7
27.5°	2594.7	2621.2	2640.2	2619.3	2590.9
30°	2513.1	2545.4	2562.4	2542.5	2509.4
32.5°	2425.9	2463.9	2474.3	2462.0	2424.0
35°	2335.9	2377.6	2382.3	2373.8	2335.9
37.5°	2242.0	2281.8	2285.6	2280.9	2242.0
40°	2143.4	2180.4	2181.3	2181.3	2143.4
42.5°	2038.2	2074.2	2074.2	2073.3	2041.0
45°	1926.3	1961.4	1964.3	1962.4	1929.2
47.5°	1815.4	1842.0	1846.7	1842.9	1813.5
50°	1691.2	1718.7	1724.4	1720.6	1697.9
52.5°	1568.0	1593.6	1599.3	1596.4	1570.8
55°	1439.1	1463.7	1467.5	1464.7	1439.1
57.5°	1314.9	1331.0	1334.8	1329.1	1296.9
60°	1169.8	1192.6	1199.2	1192.6	1162.2
62.5°	1029.5	1054.2	1059.9	1050.4	1018.2
65°	887.3	912.0	918.6	911.0	876.0
67.5°	752.7	770.7	776.4	767.9	735.6
70°	614.3	637.1	636.1	624.7	596.3
72.5°	477.8	509.1	503.4	496.8	465.5
75°	368.8	383.0	379.2	375.4	349.8
77.5°	263.5	280.6	271.1	272.1	250.3
80°	177.3	193.4	183.9	180.1	168.7
82.5°	112.8	119.4	117.6	115.7	105.2
85°	58.8	62.6	60.7	58.8	55.0
87.5°	22.8	24.6	22.8	22.8	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)