

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: P413170

Luminaire Tested: **24PD-10-PC3-L940**

Issue Date: 9/15/2020



**Test Information**

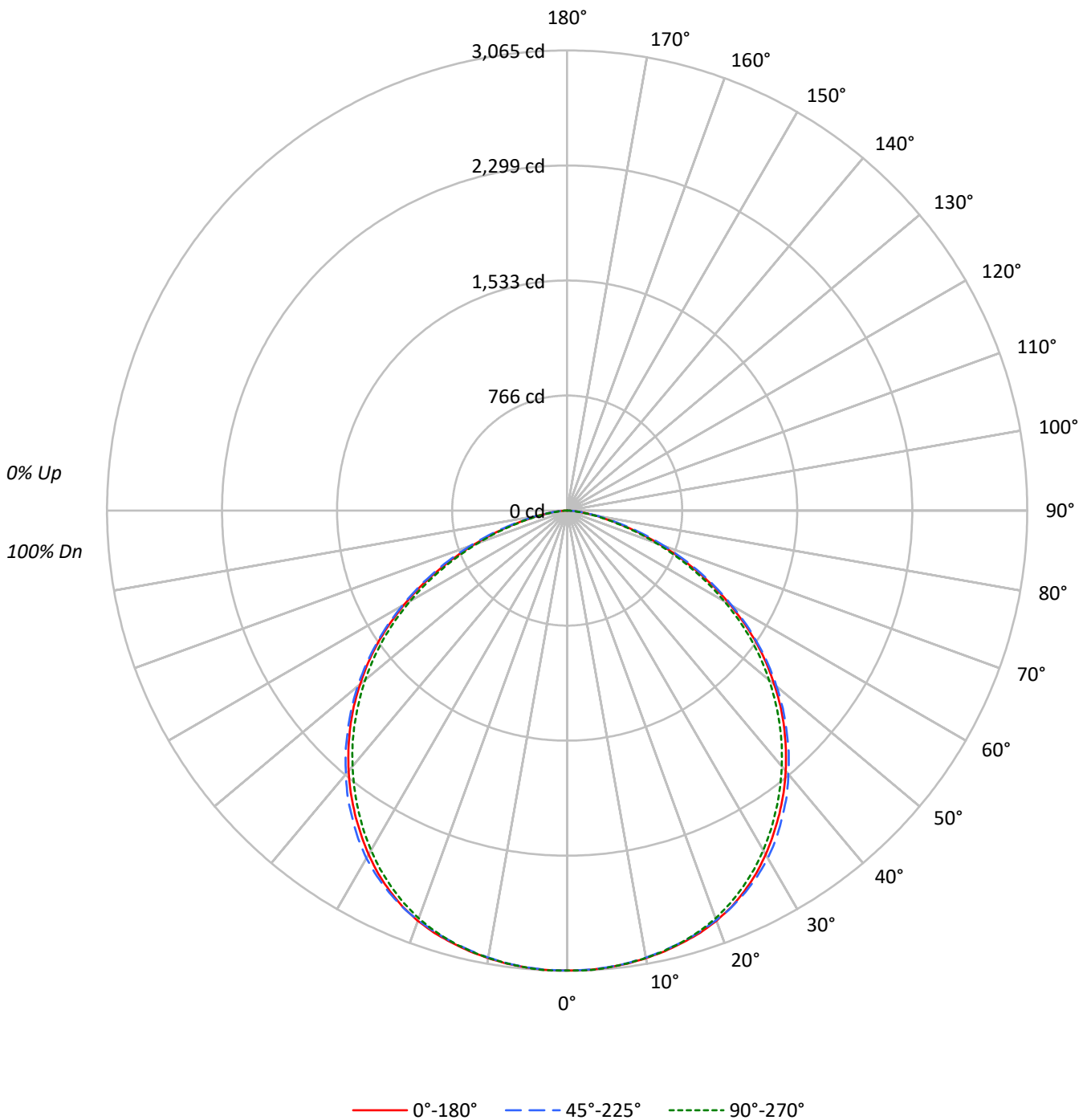
Test Method: LM-79-08  
Report Number: P413170  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-10-PC3-L940  
Description: 10000 LUMEN 2X4 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: 8374.0 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 77.4  
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	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	4122	4122	4122
5°	4128	4125	4129
10°	4136	4130	4133
15°	4149	4141	4142
20°	4163	4157	4139
25°	4151	4166	4109
30°	4110	4153	4058
35°	4049	4101	3988
40°	3978	4026	3907
45°	3889	3930	3808
50°	3768	3810	3675
55°	3613	3645	3506
60°	3373	3412	3257
65°	3039	3115	2921
70°	2581	2694	2477
75°	1998	2144	1906
80°	1486	1552	1348
85°	917	982	852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.6	3.5
10°-20°	840.2	10.0
20°-30°	1286.7	15.4
30°-40°	1547.9	18.5
40°-50°	1578.4	18.8
50°-60°	1368.4	16.3
60°-70°	948.7	11.3
70°-80°	433.3	5.2
80°-90°	80.0	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°	2417.4	28.9
0°-40°	3965.3	47.4
0°-60°	6912.0	82.5
0°-90°	8374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8374.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3064	3064	3064	3064	3064	
5°	3056	3056	3054	3053	3057	291
15°	2979	2978	2973	2970	2974	842
25°	2796	2804	2806	2782	2768	1287
35°	2465	2492	2497	2464	2428	1542
45°	2044	2069	2066	2038	2001	1575
55°	1540	1550	1554	1516	1494	1372
65°	955	975	978	945	917	944
75°	384	406	412	399	367	420
85°	59	61	64	60	55	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3063.6	3063.6	3063.6	3063.6	3063.6
2.5°	3063.6	3063.6	3061.9	3060.2	3065.3
5°	3056.0	3056.0	3054.3	3052.6	3056.8
7.5°	3044.1	3043.3	3041.6	3039.9	3042.4
10°	3027.1	3026.3	3022.9	3022.1	3025.4
12.5°	3005.9	3005.1	3000.0	3000.0	3002.5
15°	2978.8	2977.9	2972.8	2970.3	2973.7
17.5°	2948.2	2947.4	2941.4	2934.6	2936.3
20°	2907.5	2907.5	2903.2	2893.1	2890.5
22.5°	2858.3	2860.8	2860.8	2841.3	2833.7
25°	2796.3	2803.9	2806.5	2781.9	2767.5
27.5°	2725.9	2737.8	2744.5	2713.1	2694.5
30°	2645.3	2664.8	2673.3	2639.3	2612.2
32.5°	2557.0	2581.6	2591.8	2558.7	2523.9
35°	2465.3	2491.6	2496.7	2464.5	2428.0
37.5°	2367.7	2394.9	2401.7	2372.8	2327.9
40°	2265.1	2292.2	2292.2	2268.4	2224.3
42.5°	2156.4	2185.3	2184.4	2155.6	2115.7
45°	2043.6	2069.0	2065.6	2037.6	2001.1
47.5°	1927.3	1943.4	1947.7	1914.6	1879.8
50°	1800.0	1816.1	1820.4	1783.0	1755.9
52.5°	1674.4	1684.6	1690.5	1647.2	1627.7
55°	1540.3	1549.6	1553.9	1515.7	1494.5
57.5°	1398.6	1410.5	1415.6	1377.4	1353.6
60°	1253.5	1266.2	1267.9	1232.2	1210.2
62.5°	1105.8	1122.8	1126.2	1090.5	1064.2
65°	954.7	975.1	978.5	945.4	917.4
67.5°	803.7	830.8	831.7	804.5	771.4
70°	656.0	685.7	684.9	661.9	629.7
72.5°	515.1	542.3	548.2	527.0	495.6
75°	384.4	405.7	412.4	398.9	366.6
77.5°	273.3	292.8	298.7	286.0	262.2
80°	191.8	192.6	200.3	190.1	174.0
82.5°	118.8	117.1	119.7	115.4	106.1
85°	59.4	61.1	63.6	60.3	55.2
87.5°	20.4	21.2	22.9	22.9	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)