

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: P413242

Luminaire Tested: **24PD-65-PC3-L940**

Issue Date: 9/15/2020



**Test Information**

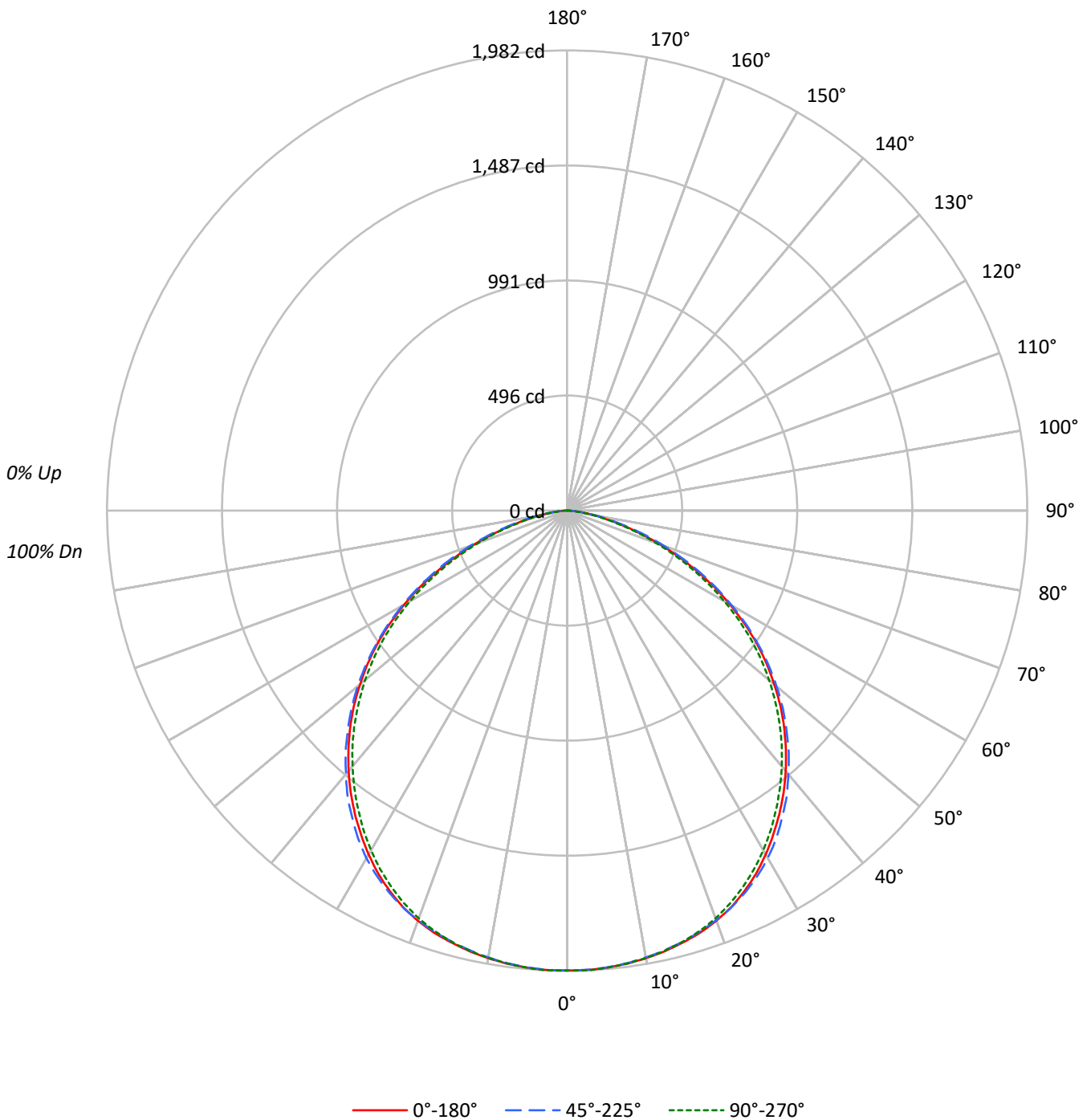
Test Method: LM-79-08  
Report Number: P413242  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-65-PC3-L940  
Description: 6500 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: 5415.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 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): 49.7  
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°	2666	2666	2666
5°	2669	2667	2670
10°	2674	2671	2673
15°	2683	2678	2679
20°	2692	2688	2676
25°	2684	2694	2657
30°	2657	2686	2624
35°	2619	2652	2579
40°	2573	2603	2526
45°	2515	2542	2462
50°	2436	2464	2377
55°	2336	2357	2267
60°	2181	2206	2106
65°	1966	2014	1889
70°	1669	1742	1602
75°	1292	1386	1233
80°	961	1003	872
85°	593	636	551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.9	3.5
10°-20°	543.3	10.0
20°-30°	832.0	15.4
30°-40°	1000.9	18.5
40°-50°	1020.6	18.8
50°-60°	884.9	16.3
60°-70°	613.4	11.3
70°-80°	280.2	5.2
80°-90°	51.7	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°	1563.2	28.9
0°-40°	2564.1	47.4
0°-60°	4469.6	82.5
0°-90°	5415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5415.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1981	1981	1981	1981	1981	
5°	1976	1976	1975	1974	1977	188
15°	1926	1926	1922	1921	1923	544
25°	1808	1813	1815	1799	1790	833
35°	1594	1611	1614	1594	1570	997
45°	1322	1338	1336	1318	1294	1018
55°	996	1002	1005	980	966	887
65°	617	630	633	611	593	610
75°	249	262	267	258	237	272
85°	38	40	41	39	36	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	1981.1	1981.1	1980.0	1978.9	1982.2
5°	1976.1	1976.1	1975.0	1973.9	1976.7
7.5°	1968.5	1967.9	1966.8	1965.7	1967.4
10°	1957.5	1956.9	1954.7	1954.2	1956.4
12.5°	1943.8	1943.2	1939.9	1939.9	1941.6
15°	1926.2	1925.7	1922.4	1920.7	1922.9
17.5°	1906.4	1905.9	1902.1	1897.7	1898.8
20°	1880.1	1880.1	1877.4	1870.8	1869.1
22.5°	1848.3	1849.9	1849.9	1837.3	1832.4
25°	1808.2	1813.2	1814.8	1798.9	1789.6
27.5°	1762.7	1770.4	1774.7	1754.4	1742.4
30°	1710.5	1723.2	1728.6	1706.7	1689.1
32.5°	1653.5	1669.4	1676.0	1654.6	1632.1
35°	1594.2	1611.2	1614.5	1593.6	1570.0
37.5°	1531.1	1548.6	1553.0	1534.4	1505.3
40°	1464.7	1482.2	1482.2	1466.9	1438.3
42.5°	1394.4	1413.1	1412.6	1393.9	1368.1
45°	1321.5	1337.9	1335.7	1317.6	1294.0
47.5°	1246.3	1256.7	1259.4	1238.0	1215.5
50°	1164.0	1174.4	1177.1	1153.0	1135.4
52.5°	1082.7	1089.3	1093.2	1065.2	1052.6
55°	996.0	1002.1	1004.8	980.1	966.4
57.5°	904.4	912.1	915.4	890.7	875.3
60°	810.5	818.8	819.9	796.8	782.6
62.5°	715.1	726.0	728.2	705.2	688.2
65°	617.4	630.5	632.7	611.3	593.2
67.5°	519.7	537.3	537.8	520.2	498.8
70°	424.2	443.4	442.9	428.0	407.2
72.5°	333.1	350.7	354.5	340.8	320.5
75°	248.6	262.3	266.7	257.9	237.1
77.5°	176.7	189.3	193.2	184.9	169.6
80°	124.0	124.6	129.5	122.9	112.5
82.5°	76.8	75.7	77.4	74.6	68.6
85°	38.4	39.5	41.2	39.0	35.7
87.5°	13.2	13.7	14.8	14.8	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)