

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: P413238

Luminaire Tested: **24PD-65-PC3-L850**

Issue Date: 9/15/2020



**Test Information**

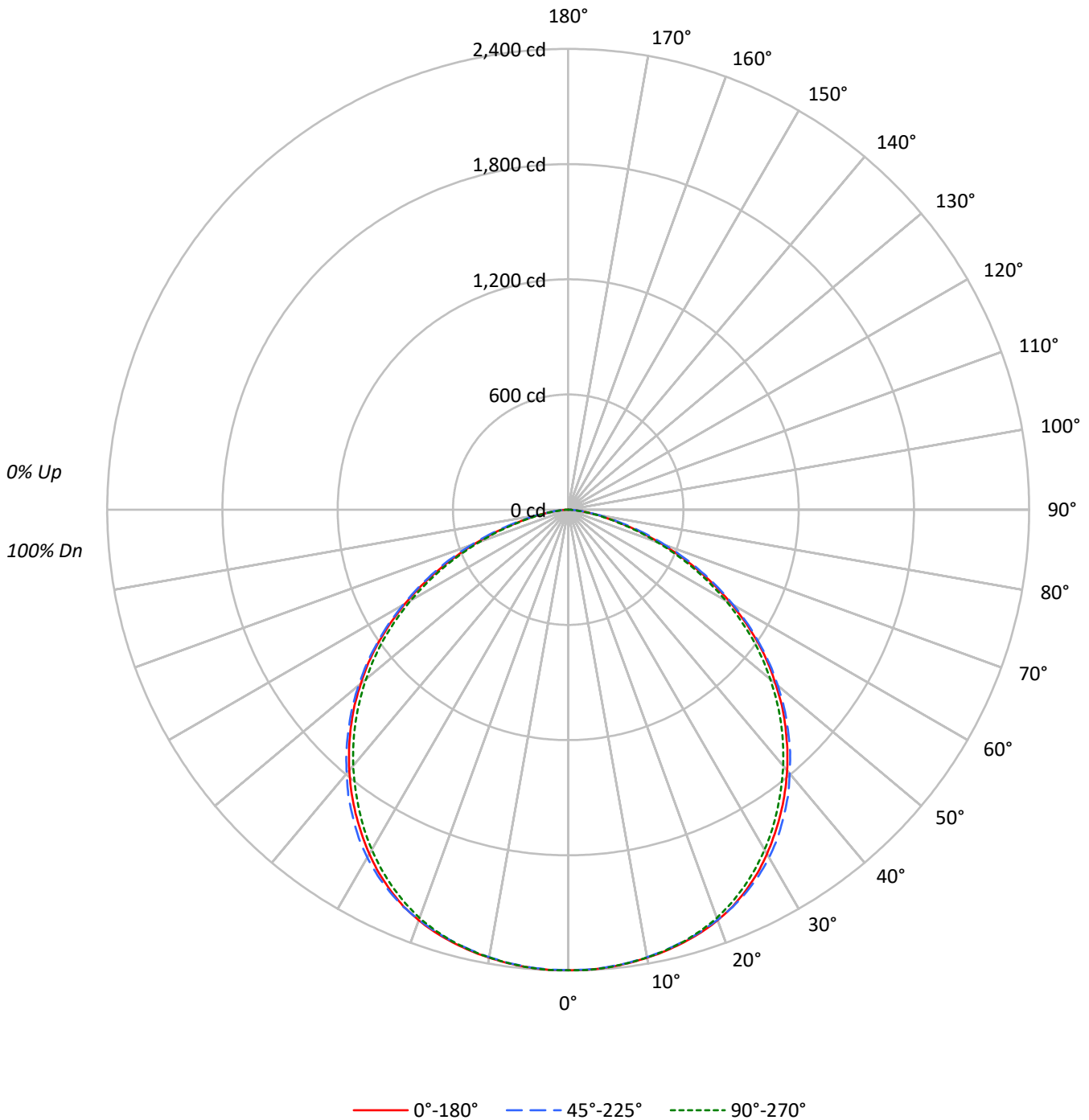
Test Method: LM-79-08  
Report Number: P413238  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-65-PC3-L850  
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6555.0 lumens  
Efficiency: N/A  
Efficacy: 131.9 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°	3227	3227	3227
5°	3231	3229	3232
10°	3237	3233	3236
15°	3248	3242	3242
20°	3259	3254	3240
25°	3250	3261	3216
30°	3217	3251	3177
35°	3170	3210	3122
40°	3114	3152	3058
45°	3044	3077	2981
50°	2949	2983	2877
55°	2828	2853	2744
60°	2640	2671	2549
65°	2379	2438	2286
70°	2020	2109	1939
75°	1564	1679	1492
80°	1163	1215	1055
85°	718	769	667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.5	3.5
10°-20°	657.7	10.0
20°-30°	1007.2	15.4
30°-40°	1211.6	18.5
40°-50°	1235.5	18.8
50°-60°	1071.1	16.3
60°-70°	742.6	11.3
70°-80°	339.2	5.2
80°-90°	62.6	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°	1892.3	28.9
0°-40°	3104.0	47.4
0°-60°	5410.6	82.5
0°-90°	6555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6555.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2398	2398	2398	2398	2398	
5°	2392	2392	2391	2390	2393	228
15°	2332	2331	2327	2325	2328	659
25°	2189	2195	2197	2178	2166	1008
35°	1930	1950	1954	1929	1901	1207
45°	1600	1620	1617	1595	1566	1233
55°	1206	1213	1216	1186	1170	1074
65°	747	763	766	740	718	739
75°	301	318	323	312	287	329
85°	46	48	50	47	43	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2398.2	2398.2	2398.2	2398.2	2398.2
2.5°	2398.2	2398.2	2396.8	2395.5	2399.5
5°	2392.2	2392.2	2390.8	2389.5	2392.8
7.5°	2382.9	2382.2	2380.9	2379.6	2381.5
10°	2369.6	2368.9	2366.3	2365.6	2368.3
12.5°	2353.0	2352.3	2348.3	2348.3	2350.3
15°	2331.7	2331.1	2327.1	2325.1	2327.7
17.5°	2307.8	2307.1	2302.5	2297.2	2298.5
20°	2275.9	2275.9	2272.6	2264.6	2262.6
22.5°	2237.4	2239.4	2239.4	2224.1	2218.1
25°	2188.9	2194.9	2196.9	2177.6	2166.3
27.5°	2133.8	2143.1	2148.4	2123.8	2109.2
30°	2070.6	2085.9	2092.6	2066.0	2044.7
32.5°	2001.6	2020.8	2028.8	2002.9	1975.7
35°	1929.8	1950.4	1954.4	1929.2	1900.6
37.5°	1853.4	1874.7	1880.0	1857.4	1822.2
40°	1773.0	1794.3	1794.3	1775.7	1741.2
42.5°	1688.0	1710.6	1709.9	1687.3	1656.1
45°	1599.7	1619.6	1616.9	1595.0	1566.4
47.5°	1508.6	1521.3	1524.6	1498.7	1471.4
50°	1409.0	1421.6	1424.9	1395.7	1374.5
52.5°	1310.7	1318.7	1323.3	1289.4	1274.1
55°	1205.7	1213.0	1216.3	1186.5	1169.8
57.5°	1094.8	1104.1	1108.1	1078.2	1059.6
60°	981.2	991.1	992.5	964.6	947.3
62.5°	865.6	878.9	881.5	853.6	833.0
65°	747.3	763.3	765.9	740.0	718.1
67.5°	629.1	650.4	651.0	629.8	603.9
70°	513.5	536.8	536.1	518.2	492.9
72.5°	403.2	424.5	429.1	412.5	388.0
75°	300.9	317.5	322.9	312.2	287.0
77.5°	213.9	229.2	233.8	223.9	205.3
80°	150.1	150.8	156.8	148.8	136.2
82.5°	93.0	91.7	93.7	90.3	83.0
85°	46.5	47.8	49.8	47.2	43.2
87.5°	15.9	16.6	17.9	17.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)