

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: P413237

Luminaire Tested: **24PD-65-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413237
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-L840
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

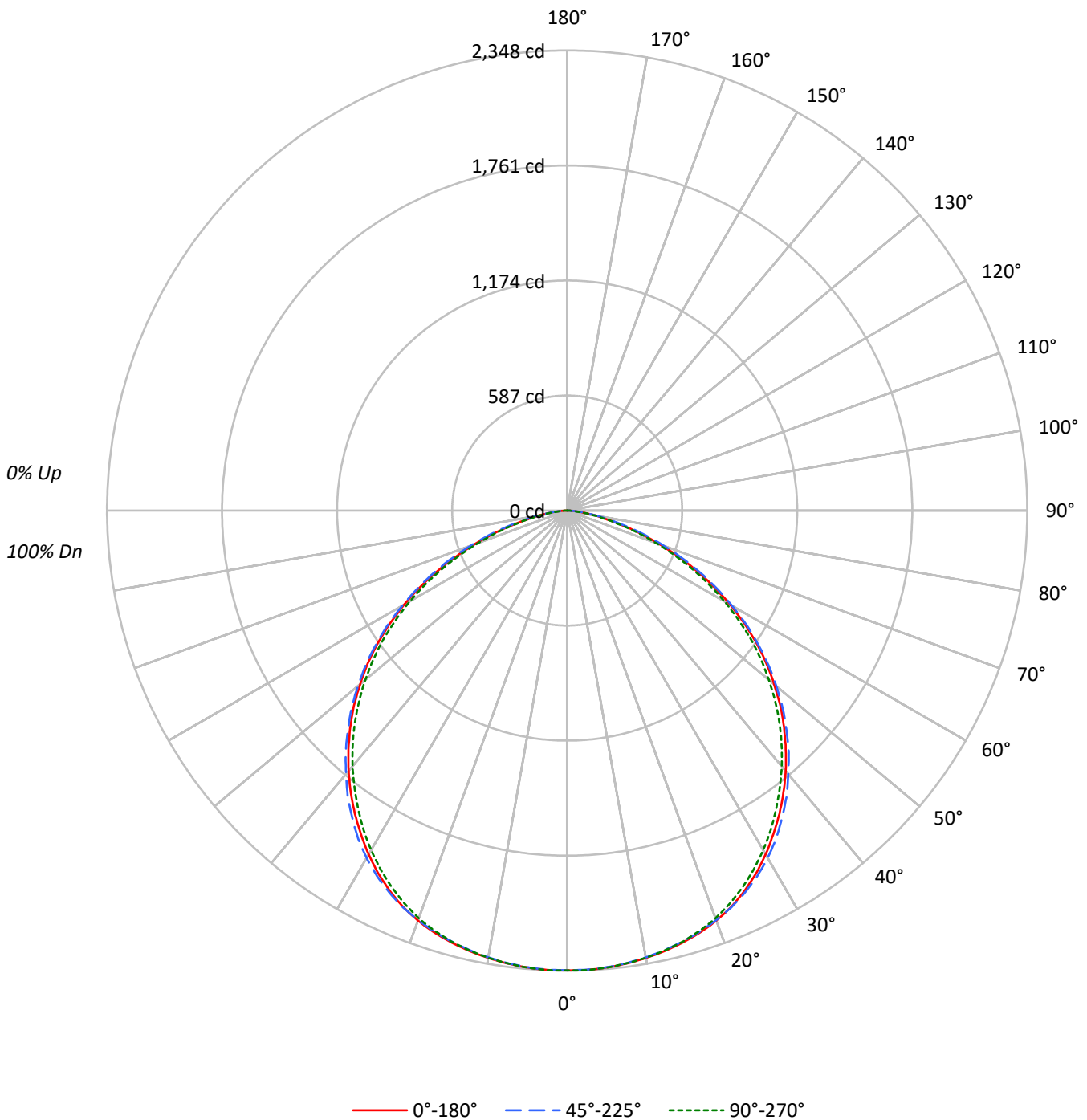
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6413.0 lumens
Efficiency: N/A
Efficacy: 129.0 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°	3157	3157	3157
5°	3161	3159	3162
10°	3167	3163	3166
15°	3178	3171	3172
20°	3188	3184	3170
25°	3179	3191	3146
30°	3147	3181	3108
35°	3101	3141	3054
40°	3047	3083	2992
45°	2978	3010	2916
50°	2885	2918	2815
55°	2767	2791	2685
60°	2583	2613	2494
65°	2328	2386	2237
70°	1976	2063	1897
75°	1530	1642	1460
80°	1138	1189	1032
85°	702	752	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	3.5
10°-20°	643.4	10.0
20°-30°	985.3	15.4
30°-40°	1185.4	18.5
40°-50°	1208.7	18.8
50°-60°	1047.9	16.3
60°-70°	726.5	11.3
70°-80°	331.8	5.2
80°-90°	61.3	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°	1851.3	28.9
0°-40°	3036.7	47.4
0°-60°	5293.4	82.5
0°-90°	6413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2346	2346	2346	2346	2346	
5°	2340	2340	2339	2338	2341	223
15°	2281	2281	2277	2275	2277	645
25°	2142	2147	2149	2130	2119	986
35°	1888	1908	1912	1887	1859	1181
45°	1565	1584	1582	1560	1532	1206
55°	1180	1187	1190	1161	1144	1051
65°	731	747	749	724	703	723
75°	294	311	316	306	281	322
85°	46	47	49	46	42	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2346.2	2346.2	2346.2	2346.2	2346.2
2.5°	2346.2	2346.2	2344.9	2343.6	2347.5
5°	2340.4	2340.4	2339.1	2337.8	2341.0
7.5°	2331.3	2330.6	2329.3	2328.0	2330.0
10°	2318.3	2317.6	2315.0	2314.4	2317.0
12.5°	2302.0	2301.4	2297.5	2297.5	2299.4
15°	2281.2	2280.6	2276.7	2274.7	2277.3
17.5°	2257.8	2257.2	2252.6	2247.4	2248.7
20°	2226.6	2226.6	2223.4	2215.6	2213.6
22.5°	2188.9	2190.9	2190.9	2175.9	2170.1
25°	2141.5	2147.3	2149.3	2130.4	2119.4
27.5°	2087.5	2096.6	2101.8	2077.8	2063.5
30°	2025.8	2040.7	2047.2	2021.2	2000.4
32.5°	1958.2	1977.0	1984.8	1959.5	1932.9
35°	1888.0	1908.2	1912.1	1887.4	1859.4
37.5°	1813.3	1834.1	1839.3	1817.2	1782.7
40°	1734.6	1755.4	1755.4	1737.2	1703.4
42.5°	1651.4	1673.5	1672.9	1650.8	1620.2
45°	1565.0	1584.5	1581.9	1560.5	1532.5
47.5°	1476.0	1488.3	1491.6	1466.2	1439.6
50°	1378.5	1390.8	1394.1	1365.5	1344.7
52.5°	1282.3	1290.1	1294.6	1261.5	1246.5
55°	1179.6	1186.7	1190.0	1160.8	1144.5
57.5°	1071.1	1080.2	1084.1	1054.8	1036.6
60°	959.9	969.7	971.0	943.7	926.8
62.5°	846.8	859.8	862.4	835.1	815.0
65°	731.2	746.8	749.4	724.0	702.6
67.5°	615.5	636.3	636.9	616.1	590.8
70°	502.4	525.1	524.5	506.9	482.2
72.5°	394.5	415.3	419.8	403.6	379.6
75°	294.4	310.7	315.9	305.5	280.8
77.5°	209.3	224.2	228.8	219.0	200.8
80°	146.9	147.5	153.4	145.6	133.2
82.5°	91.0	89.7	91.6	88.4	81.2
85°	45.5	46.8	48.7	46.1	42.2
87.5°	15.6	16.2	17.5	17.5	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)