

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: P413267

Luminaire Tested: **24PD-80-PC3-L930**

Issue Date: 9/15/2020



**Test Information**

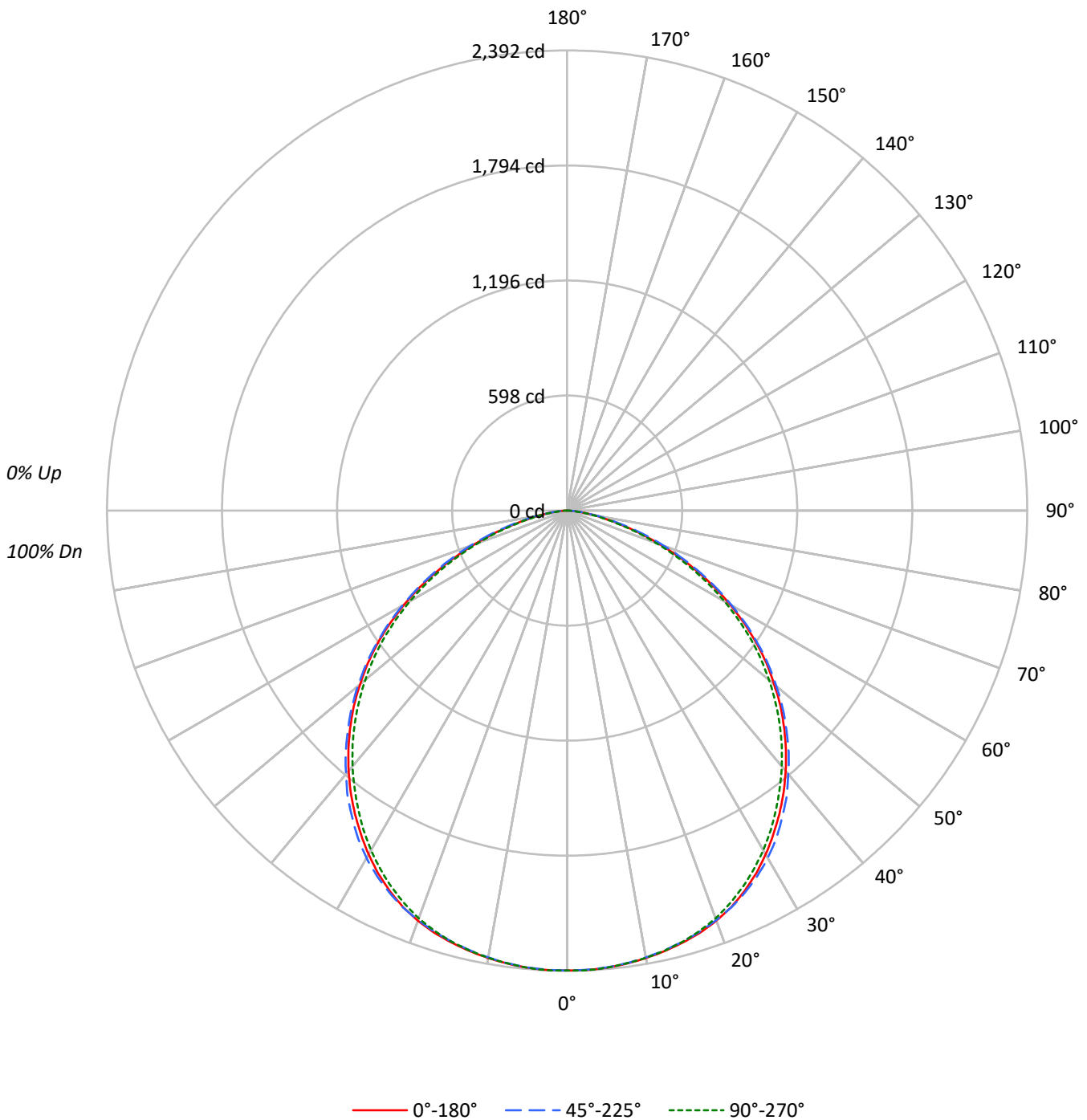
Test Method: LM-79-08  
Report Number: P413267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-80-PC3-L930  
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6534.0 lumens  
Efficiency: N/A  
Efficacy: 108.4 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): 60.3  
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°	3216	3216	3216
5°	3221	3219	3222
10°	3227	3223	3225
15°	3238	3231	3232
20°	3248	3244	3229
25°	3239	3251	3206
30°	3207	3241	3167
35°	3160	3200	3112
40°	3104	3141	3048
45°	3034	3067	2971
50°	2940	2973	2868
55°	2819	2844	2735
60°	2632	2662	2541
65°	2372	2431	2279
70°	2014	2102	1933
75°	1560	1673	1487
80°	1160	1211	1051
85°	716	767	664



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.8	3.5
10°-20°	655.6	10.0
20°-30°	1003.9	15.4
30°-40°	1207.8	18.5
40°-50°	1231.5	18.8
50°-60°	1067.7	16.3
60°-70°	740.2	11.3
70°-80°	338.1	5.2
80°-90°	62.5	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°	1886.3	28.9
0°-40°	3094.0	47.4
0°-60°	5393.3	82.5
0°-90°	6534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6534.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2390	2390	2390	2390	2390	
5°	2384	2384	2383	2382	2385	227
15°	2324	2324	2320	2318	2320	657
25°	2182	2188	2190	2171	2159	1005
35°	1924	1944	1948	1923	1894	1203
45°	1594	1614	1612	1590	1561	1229
55°	1202	1209	1212	1183	1166	1071
65°	745	761	764	738	716	737
75°	300	316	322	311	286	328
85°	46	48	50	47	43	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2390.5	2390.5	2390.5	2390.5	2390.5
2.5°	2390.5	2390.5	2389.1	2387.8	2391.8
5°	2384.5	2384.5	2383.2	2381.9	2385.2
7.5°	2375.2	2374.6	2373.3	2371.9	2373.9
10°	2362.0	2361.3	2358.7	2358.0	2360.7
12.5°	2345.4	2344.8	2340.8	2340.8	2342.8
15°	2324.3	2323.6	2319.6	2317.6	2320.3
17.5°	2300.4	2299.8	2295.1	2289.8	2291.1
20°	2268.6	2268.6	2265.3	2257.4	2255.4
22.5°	2230.2	2232.2	2232.2	2217.0	2211.0
25°	2181.9	2187.8	2189.8	2170.6	2159.4
27.5°	2126.9	2136.2	2141.5	2117.0	2102.4
30°	2064.0	2079.2	2085.9	2059.4	2038.2
32.5°	1995.1	2014.4	2022.3	1996.5	1969.3
35°	1923.6	1944.2	1948.1	1923.0	1894.5
37.5°	1847.5	1868.7	1874.0	1851.5	1816.4
40°	1767.4	1788.5	1788.5	1770.0	1735.6
42.5°	1682.6	1705.1	1704.5	1681.9	1650.8
45°	1594.5	1614.4	1611.7	1589.9	1561.4
47.5°	1503.8	1516.4	1519.7	1493.9	1466.7
50°	1404.5	1417.1	1420.4	1391.2	1370.1
52.5°	1306.5	1314.4	1319.1	1285.3	1270.1
55°	1201.9	1209.1	1212.5	1182.7	1166.1
57.5°	1091.3	1100.5	1104.5	1074.7	1056.2
60°	978.0	988.0	989.3	961.5	944.3
62.5°	862.8	876.1	878.7	850.9	830.4
65°	745.0	760.8	763.5	737.7	715.8
67.5°	627.1	648.3	648.9	627.7	601.9
70°	511.9	535.0	534.4	516.5	491.3
72.5°	401.9	423.1	427.8	411.2	386.7
75°	300.0	316.5	321.8	311.2	286.1
77.5°	213.2	228.5	233.1	223.2	204.6
80°	149.7	150.3	156.3	148.3	135.7
82.5°	92.7	91.4	93.4	90.1	82.8
85°	46.4	47.7	49.7	47.0	43.0
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)