

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: P412582

Luminaire Tested: **24PD-80-PB1-L927**

Issue Date: 9/15/2020



**Test Information**

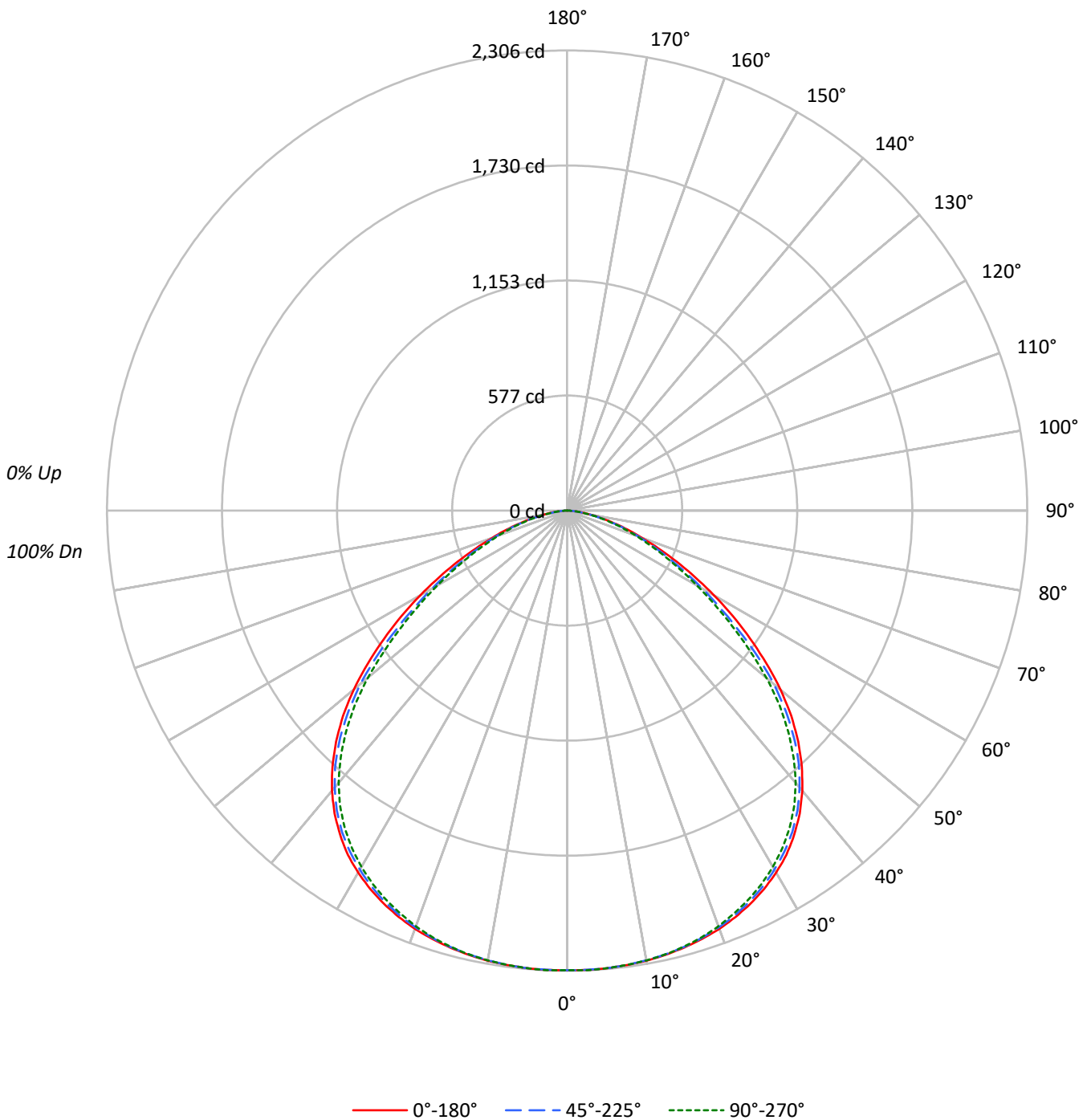
Test Method: LM-79-08  
Report Number: P412582  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-80-PB1-L927  
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6128.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47				
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43					41				
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39					37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31					30				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29					27				

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

	0°	45°	90°
0°	3099	3099	3099
5°	3109	3109	3109
10°	3130	3126	3127
15°	3158	3154	3151
20°	3193	3183	3174
25°	3227	3211	3192
30°	3255	3228	3203
35°	3258	3230	3190
40°	3221	3183	3129
45°	3116	3059	2980
50°	2922	2831	2728
55°	2626	2470	2368
60°	2287	2104	2024
65°	1924	1780	1702
70°	1568	1489	1429
75°	1256	1212	1161
80°	965	890	865
85°	604	584	584



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.3	3.6
10°-20°	640.0	10.4
20°-30°	997.0	16.3
30°-40°	1226.5	20.0
40°-50°	1232.0	20.1
50°-60°	949.5	15.5
60°-70°	563.7	9.2
70°-80°	251.0	4.1
80°-90°	49.0	0.8
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°	1856.3	30.3
0°-40°	3082.8	50.3
0°-60°	5264.3	85.9
0°-90°	6128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6128.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2303	2303	2303	2303	2303	
5°	2302	2302	2302	2299	2302	219
15°	2267	2267	2264	2260	2262	641
25°	2174	2173	2163	2153	2150	1002
35°	1984	1981	1967	1950	1942	1239
45°	1638	1633	1608	1581	1566	1257
55°	1119	1098	1053	1021	1010	1001
65°	604	578	559	538	535	604
75°	242	237	233	225	223	262
85°	39	37	38	36	38	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2303.0	2303.0	2303.0	2303.0	2303.0
2.5°	2304.2	2303.6	2303.6	2301.1	2306.0
5°	2301.8	2302.4	2301.8	2299.3	2301.8
7.5°	2296.9	2297.5	2296.3	2293.8	2296.3
10°	2290.8	2290.8	2288.3	2287.1	2288.9
12.5°	2280.4	2280.4	2278.0	2276.1	2278.0
15°	2267.0	2267.0	2263.9	2260.3	2262.1
17.5°	2250.5	2250.5	2245.6	2240.7	2241.9
20°	2230.3	2229.7	2223.0	2216.3	2216.9
22.5°	2204.7	2204.1	2195.6	2187.6	2185.2
25°	2173.6	2173.0	2162.6	2152.8	2150.4
27.5°	2137.6	2135.1	2123.5	2112.5	2110.1
30°	2094.8	2093.0	2077.7	2066.8	2061.9
32.5°	2045.4	2040.5	2026.5	2013.0	2006.3
35°	1983.7	1980.7	1966.7	1950.2	1942.2
37.5°	1914.2	1911.1	1895.9	1877.5	1868.4
40°	1833.6	1831.2	1812.2	1793.3	1781.7
42.5°	1740.8	1739.0	1718.8	1692.6	1680.4
45°	1637.7	1633.4	1607.8	1580.9	1566.2
47.5°	1522.9	1515.6	1484.5	1458.8	1442.9
50°	1395.9	1386.2	1352.6	1319.7	1303.2
52.5°	1258.6	1241.5	1206.7	1168.9	1153.0
55°	1119.4	1098.1	1052.9	1021.2	1009.6
57.5°	983.3	952.2	909.5	886.9	875.3
60°	849.7	815.5	781.9	759.9	752.0
62.5°	722.1	693.4	664.7	642.7	637.9
65°	604.3	578.0	559.1	537.7	534.7
67.5°	494.4	482.2	465.1	446.8	444.4
70°	398.6	393.7	378.4	367.5	363.2
72.5°	318.0	313.1	302.1	294.2	293.0
75°	241.7	236.8	233.2	225.2	223.4
77.5°	172.1	172.7	169.7	165.4	166.6
80°	124.5	117.2	114.8	112.3	111.7
82.5°	76.3	72.0	70.2	69.6	70.8
85°	39.1	37.2	37.8	36.0	37.8
87.5°	13.4	13.4	14.0	13.4	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)