

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: P412894

Luminaire Tested: **24PD-65-PP3-L835**

Issue Date: 9/15/2020



**Test Information**

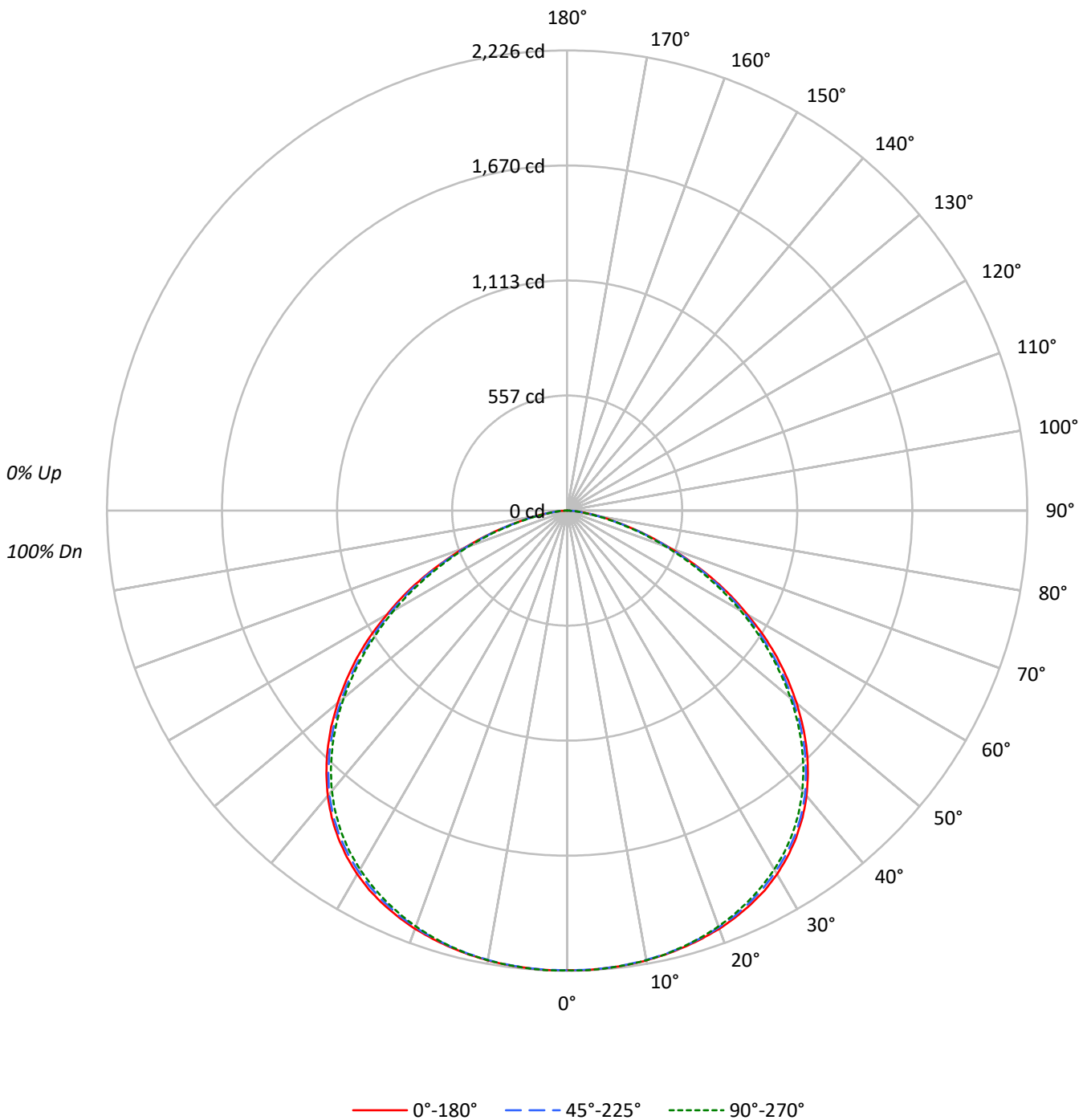
Test Method: LM-79-08  
Report Number: P412894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-65-PP3-L835  
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6471.0 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
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 (A<sub>in</sub>): 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	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	2992	2992	2992
5°	3000	2999	3001
10°	3019	3015	3018
15°	3046	3041	3039
20°	3082	3072	3065
25°	3121	3105	3090
30°	3156	3134	3113
35°	3173	3154	3125
40°	3164	3145	3110
45°	3119	3088	3054
50°	3033	2985	2954
55°	2908	2838	2802
60°	2710	2662	2609
65°	2456	2407	2337
70°	2096	2058	1992
75°	1637	1620	1543
80°	1207	1158	1093
85°	729	729	679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.6	3.3
10°-20°	617.4	9.5
20°-30°	965.0	14.9
30°-40°	1199.3	18.5
40°-50°	1249.6	19.3
50°-60°	1084.3	16.8
60°-70°	745.6	11.5
70°-80°	336.5	5.2
80°-90°	61.7	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°	1794.0	27.7
0°-40°	2993.3	46.3
0°-60°	5327.3	82.3
0°-90°	6471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6471.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2224	2224	2224	2224	2224	
5°	2221	2222	2221	2219	2222	212
15°	2186	2186	2183	2181	2182	618
25°	2102	2102	2091	2083	2082	970
35°	1932	1932	1920	1909	1902	1207
45°	1639	1640	1623	1611	1605	1262
55°	1240	1233	1210	1196	1194	1105
65°	772	768	756	738	734	761
75°	315	316	312	303	297	343
85°	47	47	47	47	44	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2223.9	2223.9	2223.9	2223.9	2223.9
2.5°	2224.5	2224.5	2223.2	2221.3	2225.8
5°	2221.3	2222.0	2220.7	2218.7	2222.0
7.5°	2216.8	2217.4	2215.5	2213.5	2216.1
10°	2209.7	2209.0	2207.1	2205.8	2209.0
12.5°	2199.3	2198.7	2196.7	2195.4	2198.0
15°	2186.4	2186.4	2183.2	2181.2	2181.9
17.5°	2170.9	2170.9	2166.3	2161.8	2163.1
20°	2152.8	2152.1	2145.6	2141.1	2140.5
22.5°	2130.1	2130.1	2121.1	2115.3	2113.3
25°	2102.3	2101.7	2091.3	2082.9	2081.6
27.5°	2070.6	2069.3	2057.1	2048.6	2045.4
30°	2031.2	2029.9	2017.0	2007.9	2004.0
32.5°	1984.6	1986.6	1971.7	1961.3	1957.5
35°	1931.6	1931.6	1920.0	1909.0	1902.5
37.5°	1870.8	1870.8	1859.8	1848.8	1841.1
40°	1801.6	1802.3	1790.6	1777.0	1770.6
42.5°	1724.0	1725.3	1709.8	1698.8	1691.7
45°	1639.3	1640.0	1623.1	1610.9	1605.0
47.5°	1547.5	1546.2	1527.4	1517.1	1511.3
50°	1449.2	1446.6	1425.9	1416.2	1411.0
52.5°	1346.4	1341.2	1323.1	1308.9	1304.3
55°	1239.7	1232.6	1209.9	1195.7	1194.4
57.5°	1128.4	1120.0	1101.3	1087.7	1082.5
60°	1006.9	1004.9	989.4	973.2	969.4
62.5°	893.0	887.2	873.6	854.2	852.3
65°	771.5	768.2	756.0	737.8	734.0
67.5°	646.0	649.3	638.9	622.7	617.6
70°	532.9	534.8	523.2	508.3	506.3
72.5°	419.0	422.3	412.6	402.9	400.9
75°	314.9	316.2	311.7	303.3	296.8
77.5°	223.7	228.3	223.1	217.3	212.1
80°	155.8	148.7	149.4	146.8	141.0
82.5°	93.8	90.5	89.9	87.3	84.7
85°	47.2	46.6	47.2	46.6	44.0
87.5°	15.5	16.8	17.5	17.5	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)