

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: P412902

Luminaire Tested: **24PD-70-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

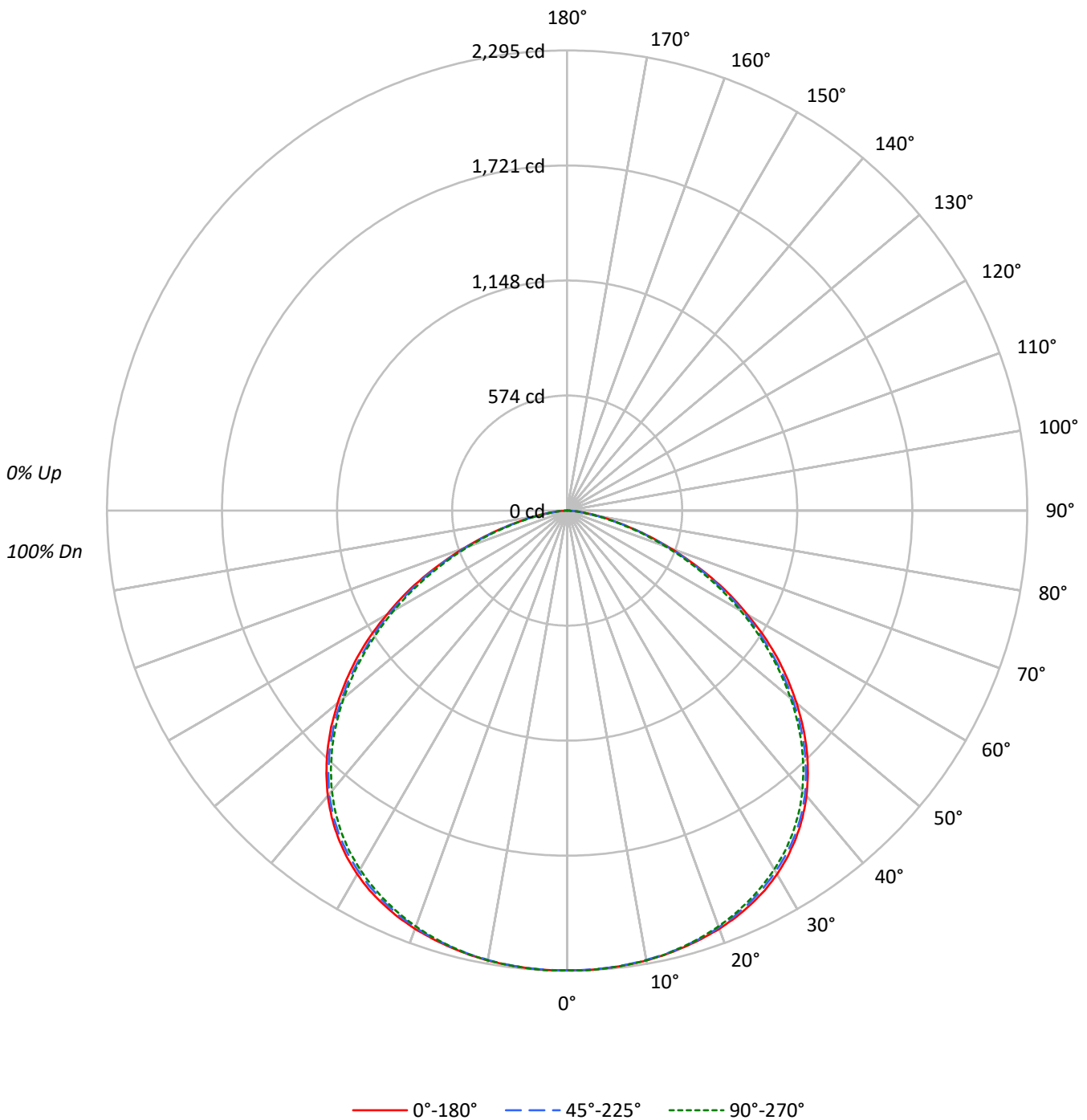
Test Method: LM-79-08  
Report Number: P412902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-70-PP3-L830  
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6672.0 lumens  
Efficiency: N/A  
Efficacy: 127.6 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): 52.3  
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°	3085	3085	3085
5°	3093	3092	3094
10°	3113	3109	3112
15°	3140	3136	3134
20°	3178	3168	3160
25°	3218	3201	3186
30°	3254	3231	3210
35°	3271	3252	3222
40°	3263	3243	3207
45°	3216	3185	3149
50°	3128	3077	3045
55°	2998	2926	2889
60°	2794	2745	2690
65°	2532	2481	2409
70°	2161	2122	2054
75°	1688	1671	1591
80°	1245	1193	1127
85°	752	752	699



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.1	3.3
10°-20°	636.6	9.5
20°-30°	995.0	14.9
30°-40°	1236.6	18.5
40°-50°	1288.4	19.3
50°-60°	1118.0	16.8
60°-70°	768.8	11.5
70°-80°	346.9	5.2
80°-90°	63.6	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°	1849.7	27.7
0°-40°	3086.3	46.3
0°-60°	5492.8	82.3
0°-90°	6672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6672.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2293	2293	2293	2293	2293	
5°	2290	2291	2290	2288	2291	218
15°	2254	2254	2251	2249	2250	638
25°	2168	2167	2156	2148	2146	1000
35°	1992	1992	1980	1968	1962	1245
45°	1690	1691	1674	1661	1655	1301
55°	1278	1271	1248	1233	1232	1139
65°	795	792	779	761	757	785
75°	325	326	321	313	306	354
85°	49	48	49	48	45	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2293.0	2293.0	2293.0	2293.0	2293.0
2.5°	2293.6	2293.6	2292.3	2290.3	2295.0
5°	2290.3	2291.0	2289.6	2287.6	2291.0
7.5°	2285.6	2286.3	2284.3	2282.3	2285.0
10°	2278.3	2277.6	2275.6	2274.3	2277.6
12.5°	2267.6	2267.0	2265.0	2263.6	2266.3
15°	2254.3	2254.3	2251.0	2249.0	2249.6
17.5°	2238.3	2238.3	2233.6	2229.0	2230.3
20°	2219.6	2219.0	2212.3	2207.6	2207.0
22.5°	2196.3	2196.3	2187.0	2181.0	2179.0
25°	2167.6	2167.0	2156.3	2147.6	2146.3
27.5°	2135.0	2133.6	2120.9	2112.3	2108.9
30°	2094.3	2092.9	2079.6	2070.3	2066.3
32.5°	2046.3	2048.3	2032.9	2022.3	2018.3
35°	1991.6	1991.6	1979.6	1968.3	1961.6
37.5°	1928.9	1928.9	1917.6	1906.3	1898.3
40°	1857.6	1858.2	1846.2	1832.2	1825.6
42.5°	1777.6	1778.9	1762.9	1751.6	1744.2
45°	1690.2	1690.9	1673.6	1660.9	1654.9
47.5°	1595.5	1594.2	1574.9	1564.2	1558.2
50°	1494.2	1491.5	1470.2	1460.2	1454.9
52.5°	1388.2	1382.9	1364.2	1349.5	1344.8
55°	1278.2	1270.8	1247.5	1232.8	1231.5
57.5°	1163.5	1154.8	1135.5	1121.5	1116.1
60°	1038.1	1036.1	1020.1	1003.5	999.5
62.5°	920.8	914.8	900.8	880.8	878.8
65°	795.4	792.1	779.4	760.8	756.8
67.5°	666.1	669.4	658.8	642.1	636.8
70°	549.4	551.4	539.4	524.1	522.1
72.5°	432.1	435.4	425.4	415.4	413.4
75°	324.7	326.0	321.4	312.7	306.0
77.5°	230.7	235.4	230.0	224.0	218.7
80°	160.7	153.4	154.0	151.4	145.4
82.5°	96.7	93.3	92.7	90.0	87.3
85°	48.7	48.0	48.7	48.0	45.3
87.5°	16.0	17.3	18.0	18.0	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)