

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: P413280

Luminaire Tested: **24PD-90-PC3-L830**

Issue Date: 9/15/2020



**Test Information**

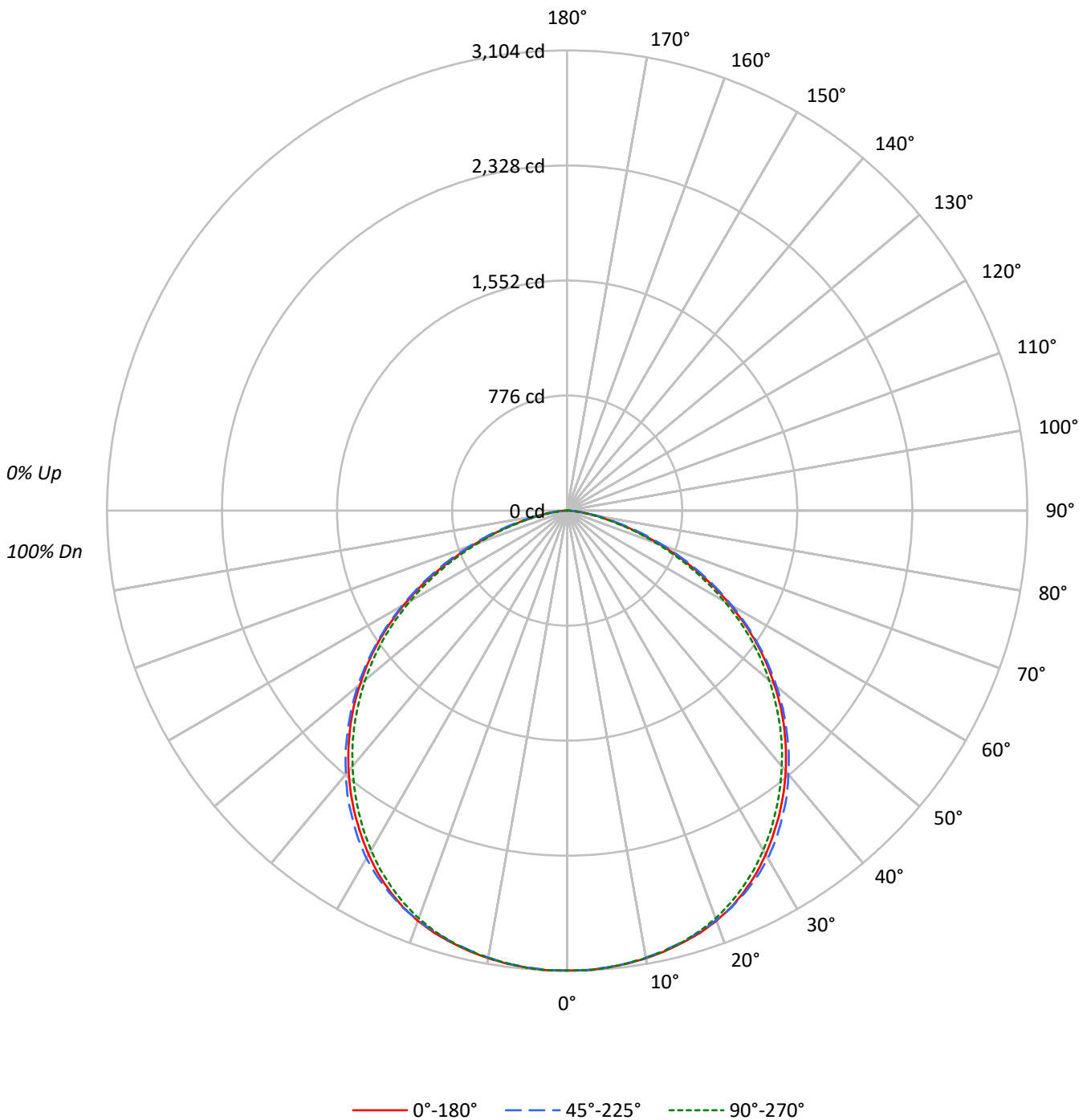
Test Method: LM-79-08  
Report Number: P413280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-90-PC3-L830  
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8481.0 lumens  
Efficiency: N/A  
Efficacy: 123.4 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): 68.7  
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°	4175	4175	4175
5°	4180	4178	4181
10°	4189	4183	4186
15°	4202	4194	4195
20°	4216	4210	4192
25°	4204	4220	4161
30°	4162	4206	4110
35°	4101	4153	4039
40°	4029	4078	3957
45°	3938	3981	3856
50°	3816	3859	3722
55°	3659	3692	3551
60°	3416	3455	3298
65°	3078	3155	2958
70°	2614	2729	2509
75°	2024	2171	1930
80°	1505	1571	1365
85°	929	996	863



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.3	3.5
10°-20°	850.9	10.0
20°-30°	1303.1	15.4
30°-40°	1567.6	18.5
40°-50°	1598.5	18.8
50°-60°	1385.8	16.3
60°-70°	960.8	11.3
70°-80°	438.8	5.2
80°-90°	81.0	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°	2448.3	28.9
0°-40°	4016.0	47.4
0°-60°	7000.3	82.5
0°-90°	8481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8481.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3103	3103	3103	3103	3103	
5°	3095	3095	3093	3092	3096	295
15°	3017	3016	3011	3008	3012	852
25°	2832	2840	2842	2817	2803	1304
35°	2497	2524	2529	2496	2459	1561
45°	2070	2096	2092	2064	2027	1595
55°	1560	1569	1574	1535	1514	1390
65°	967	988	991	958	929	956
75°	389	411	418	404	371	426
85°	60	62	64	61	56	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3102.8	3102.8	3102.8	3102.8	3102.8
2.5°	3102.8	3102.8	3101.1	3099.3	3104.5
5°	3095.0	3095.0	3093.3	3091.6	3095.9
7.5°	3083.0	3082.2	3080.4	3078.7	3081.3
10°	3065.8	3065.0	3061.5	3060.7	3064.1
12.5°	3044.3	3043.5	3038.3	3038.3	3040.9
15°	3016.8	3016.0	3010.8	3008.2	3011.7
17.5°	2985.9	2985.0	2979.0	2972.1	2973.9
20°	2944.6	2944.6	2940.3	2930.0	2927.4
22.5°	2894.8	2897.4	2897.4	2877.6	2869.9
25°	2832.0	2839.8	2842.4	2817.4	2802.8
27.5°	2760.7	2772.7	2779.6	2747.8	2728.9
30°	2679.1	2698.8	2707.4	2673.0	2645.5
32.5°	2589.7	2614.6	2624.9	2591.4	2556.1
35°	2496.8	2523.5	2528.6	2496.0	2459.0
37.5°	2398.0	2425.5	2432.4	2403.2	2357.6
40°	2294.0	2321.5	2321.5	2297.4	2252.7
42.5°	2184.0	2213.2	2212.3	2183.1	2142.7
45°	2069.7	2095.5	2092.0	2063.7	2026.7
47.5°	1951.9	1968.2	1972.5	1939.0	1903.8
50°	1823.0	1839.3	1843.6	1805.8	1778.3
52.5°	1695.8	1706.1	1712.1	1668.3	1648.5
55°	1560.0	1569.4	1573.7	1535.1	1513.6
57.5°	1416.5	1428.5	1433.6	1395.0	1370.9
60°	1269.5	1282.4	1284.1	1248.0	1225.6
62.5°	1119.9	1137.1	1140.6	1104.5	1077.8
65°	966.9	987.6	991.0	957.5	929.1
67.5°	813.9	841.4	842.3	814.8	781.3
70°	664.4	694.5	693.6	670.4	637.7
72.5°	521.7	549.2	555.2	533.7	501.9
75°	389.4	410.8	417.7	404.0	371.3
77.5°	276.8	296.5	302.5	289.7	265.6
80°	194.2	195.1	202.8	192.5	176.2
82.5°	120.3	118.6	121.2	116.9	107.4
85°	60.2	61.9	64.5	61.0	55.9
87.5°	20.6	21.5	23.2	23.2	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)