

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: P412474

Luminaire Tested: **22PD-85-PB1-L927**

Issue Date: 9/15/2020



**Test Information**

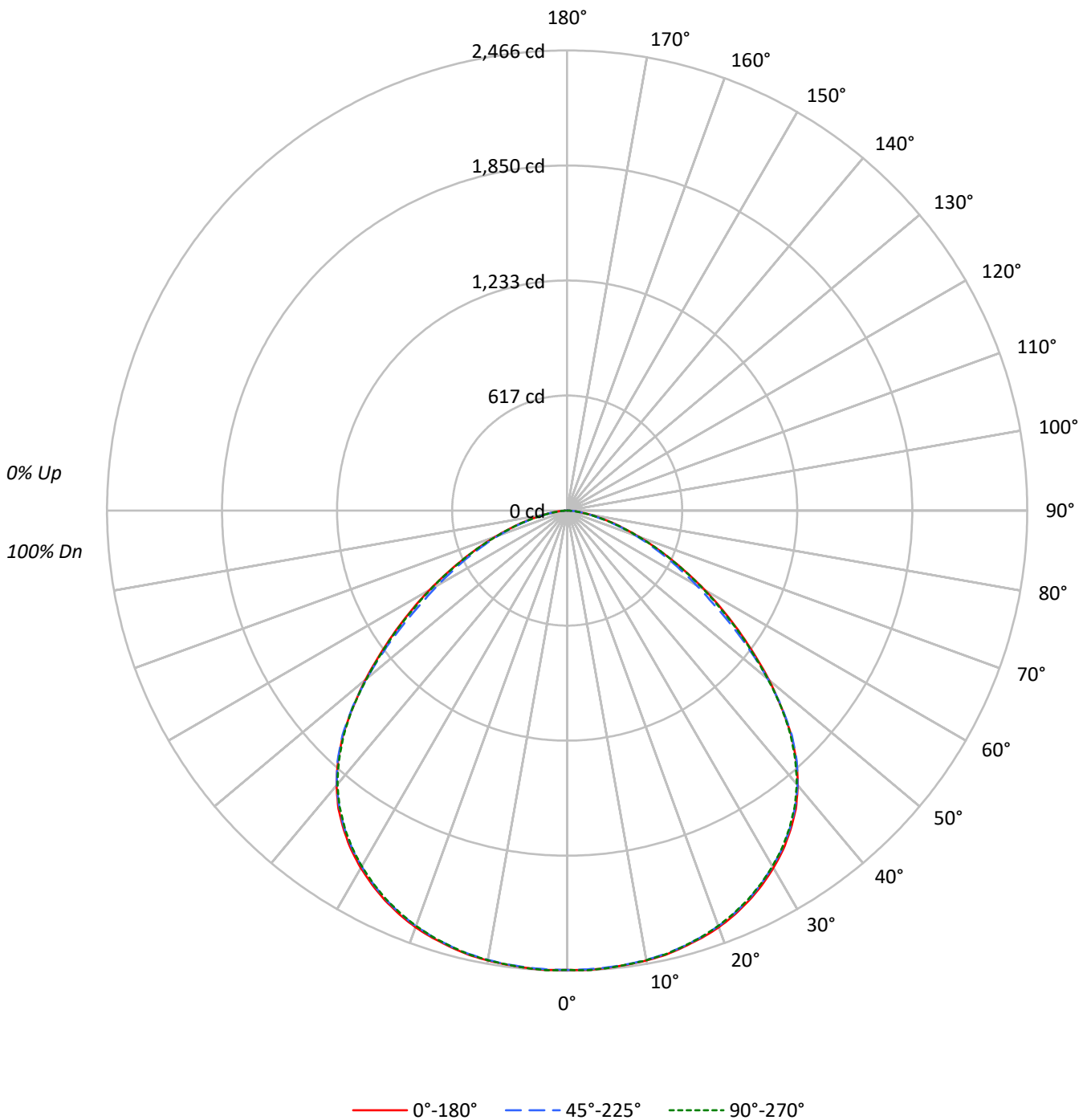
Test Method: LM-79-08  
Report Number: P412474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-85-PB1-L927  
Description: 8500 LUMEN 2X2 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: 6463.0 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 77.3  
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	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	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	6625	6625	6625
5°	6646	6639	6648
10°	6689	6681	6685
15°	6744	6733	6733
20°	6806	6786	6781
25°	6848	6828	6821
30°	6871	6843	6838
35°	6857	6837	6824
40°	6754	6746	6725
45°	6457	6478	6428
50°	5911	5879	5873
55°	5253	5068	5218
60°	4580	4302	4552
65°	3882	3674	3863
70°	3210	3079	3180
75°	2596	2430	2493
80°	1875	1816	1805
85°	1223	1223	1176



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.2	3.6
10°-20°	683.1	10.6
20°-30°	1060.1	16.4
30°-40°	1299.9	20.1
40°-50°	1299.5	20.1
50°-60°	984.3	15.2
60°-70°	590.3	9.1
70°-80°	259.9	4.0
80°-90°	51.6	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°	1977.4	30.6
0°-40°	3277.4	50.7
0°-60°	5561.2	86.0
0°-90°	6463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6463.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2462	2462	2462	2462	2462	
5°	2460	2457	2458	2457	2461	234
15°	2421	2418	2417	2415	2417	684
25°	2306	2302	2300	2296	2297	1063
35°	2087	2086	2081	2080	2077	1304
45°	1697	1699	1702	1698	1689	1299
55°	1120	1095	1080	1095	1112	1004
65°	610	588	577	587	607	610
75°	250	244	234	238	240	266
85°	40	41	40	38	38	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2461.8	2461.8	2461.8	2461.8	2461.8
2.5°	2464.0	2460.2	2461.0	2461.0	2465.6
5°	2460.2	2457.2	2457.9	2457.2	2461.0
7.5°	2454.9	2451.9	2452.6	2451.9	2454.1
10°	2448.0	2445.0	2445.0	2443.5	2446.5
12.5°	2438.9	2435.1	2433.6	2432.8	2435.1
15°	2420.6	2418.4	2416.8	2415.3	2416.8
17.5°	2400.9	2397.0	2395.5	2392.5	2395.5
20°	2376.5	2371.2	2369.6	2367.4	2368.1
22.5°	2344.5	2340.0	2337.7	2333.9	2335.4
25°	2306.5	2301.9	2299.6	2295.8	2297.3
27.5°	2262.3	2259.3	2253.9	2250.9	2251.7
30°	2211.3	2208.3	2202.2	2200.7	2200.7
32.5°	2155.0	2151.2	2145.8	2144.3	2143.6
35°	2087.2	2086.5	2081.1	2079.6	2077.3
37.5°	2013.4	2011.9	2005.8	2004.3	2002.0
40°	1922.8	1921.3	1920.5	1917.5	1914.4
42.5°	1817.8	1820.1	1821.6	1815.5	1809.4
45°	1696.7	1699.0	1702.1	1697.5	1689.1
47.5°	1555.2	1564.3	1559.7	1562.8	1554.4
50°	1412.0	1412.0	1404.4	1407.5	1402.9
52.5°	1262.1	1249.9	1240.8	1246.9	1253.0
55°	1119.7	1095.4	1080.2	1094.6	1112.1
57.5°	983.5	954.6	926.4	949.2	970.5
60°	851.0	817.5	799.3	816.0	845.7
62.5°	725.4	701.1	682.8	695.7	720.9
65°	609.7	588.4	577.0	586.9	606.7
67.5°	503.9	489.5	478.0	486.4	501.6
70°	408.0	404.2	391.3	395.1	404.2
72.5°	320.5	319.7	308.3	311.3	316.7
75°	249.7	244.3	233.7	237.5	239.8
77.5°	176.6	178.9	169.0	171.3	171.3
80°	121.0	124.8	117.2	115.7	116.5
82.5°	76.9	76.9	76.1	75.4	73.1
85°	39.6	41.1	39.6	38.1	38.1
87.5°	15.2	15.2	15.2	14.5	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)