

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: P412816

Luminaire Tested: **22PD-85-PP3-L927**

Issue Date: 9/15/2020



**Test Information**

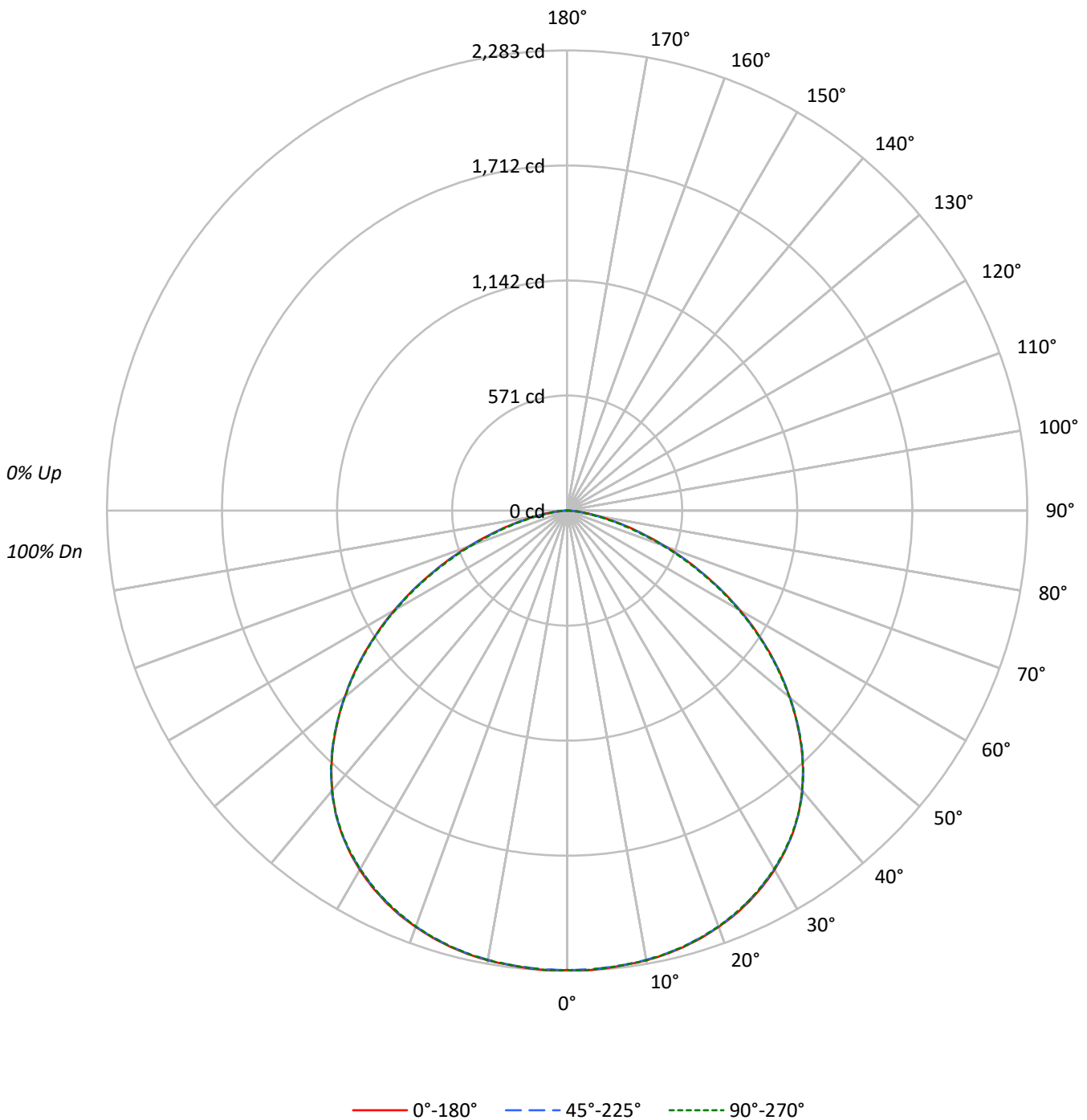
Test Method: LM-79-08  
Report Number: P412816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-85-PP3-L927  
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6541.0 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
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	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	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	47		57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
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°	6135	6135	6135
5°	6154	6146	6150
10°	6192	6184	6188
15°	6241	6235	6235
20°	6296	6289	6287
25°	6351	6340	6340
30°	6396	6384	6382
35°	6414	6414	6407
40°	6372	6386	6372
45°	6246	6263	6255
50°	6036	6045	6029
55°	5746	5732	5721
60°	5334	5322	5281
65°	4765	4760	4706
70°	4072	4049	3959
75°	3245	3150	3055
80°	2312	2266	2146
85°	1504	1504	1457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	3.3
10°-20°	632.4	9.7
20°-30°	984.7	15.1
30°-40°	1218.8	18.6
40°-50°	1263.8	19.3
50°-60°	1089.3	16.7
60°-70°	740.6	11.3
70°-80°	331.4	5.1
80°-90°	63.1	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°	1834.0	28.0
0°-40°	3052.8	46.7
0°-60°	5405.9	82.6
0°-90°	6541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6541.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2280	2280	2280	2280	2280	
5°	2278	2274	2275	2274	2277	217
15°	2240	2236	2238	2236	2238	633
25°	2139	2136	2135	2134	2135	986
35°	1952	1950	1952	1950	1950	1220
45°	1641	1640	1646	1642	1644	1263
55°	1225	1220	1222	1220	1220	1092
65°	748	754	748	745	739	743
75°	312	313	303	301	294	336
85°	49	50	49	47	47	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2279.8	2279.8	2279.8	2279.8	2279.8
2.5°	2282.9	2278.3	2278.3	2279.1	2281.4
5°	2278.3	2273.7	2275.3	2274.5	2276.8
7.5°	2272.2	2268.4	2270.7	2269.2	2270.7
10°	2266.1	2262.3	2263.1	2262.3	2264.6
12.5°	2255.5	2250.9	2252.4	2252.4	2253.2
15°	2240.2	2236.4	2238.0	2236.4	2238.0
17.5°	2222.0	2217.4	2218.2	2217.4	2218.9
20°	2198.4	2195.3	2196.1	2194.6	2195.3
22.5°	2171.7	2167.9	2168.7	2167.2	2167.2
25°	2139.0	2136.0	2135.2	2134.4	2135.2
27.5°	2100.9	2097.1	2097.1	2096.4	2096.4
30°	2058.3	2054.5	2054.5	2053.8	2053.8
32.5°	2008.1	2006.6	2007.3	2005.8	2005.0
35°	1952.5	1950.2	1952.5	1949.5	1950.2
37.5°	1887.8	1884.8	1889.3	1886.3	1887.0
40°	1814.0	1812.4	1817.8	1815.5	1814.0
42.5°	1731.8	1731.8	1734.0	1734.8	1733.3
45°	1641.2	1639.7	1645.7	1641.9	1643.5
47.5°	1543.7	1541.5	1546.0	1545.3	1544.5
50°	1441.7	1440.2	1444.0	1440.2	1440.2
52.5°	1335.9	1335.2	1335.9	1332.1	1331.4
55°	1224.8	1220.2	1221.7	1219.5	1219.5
57.5°	1109.1	1103.8	1104.5	1103.8	1104.5
60°	991.1	989.6	988.8	985.0	981.2
62.5°	870.1	871.6	870.8	865.5	861.7
65°	748.3	754.4	747.5	745.2	739.1
67.5°	633.3	635.6	631.0	625.7	618.9
70°	517.6	522.2	514.6	509.3	503.2
72.5°	407.2	410.3	403.4	400.4	392.8
75°	312.1	312.9	303.0	301.4	293.8
77.5°	222.3	225.3	217.7	217.7	210.1
80°	149.2	154.5	146.2	143.9	138.5
82.5°	93.6	94.4	92.1	89.8	87.5
85°	48.7	50.2	48.7	47.2	47.2
87.5°	18.3	19.0	18.3	17.5	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)