

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: P412809

Luminaire Tested: **22PD-80-PP3-L935**

Issue Date: 9/15/2020



**Test Information**

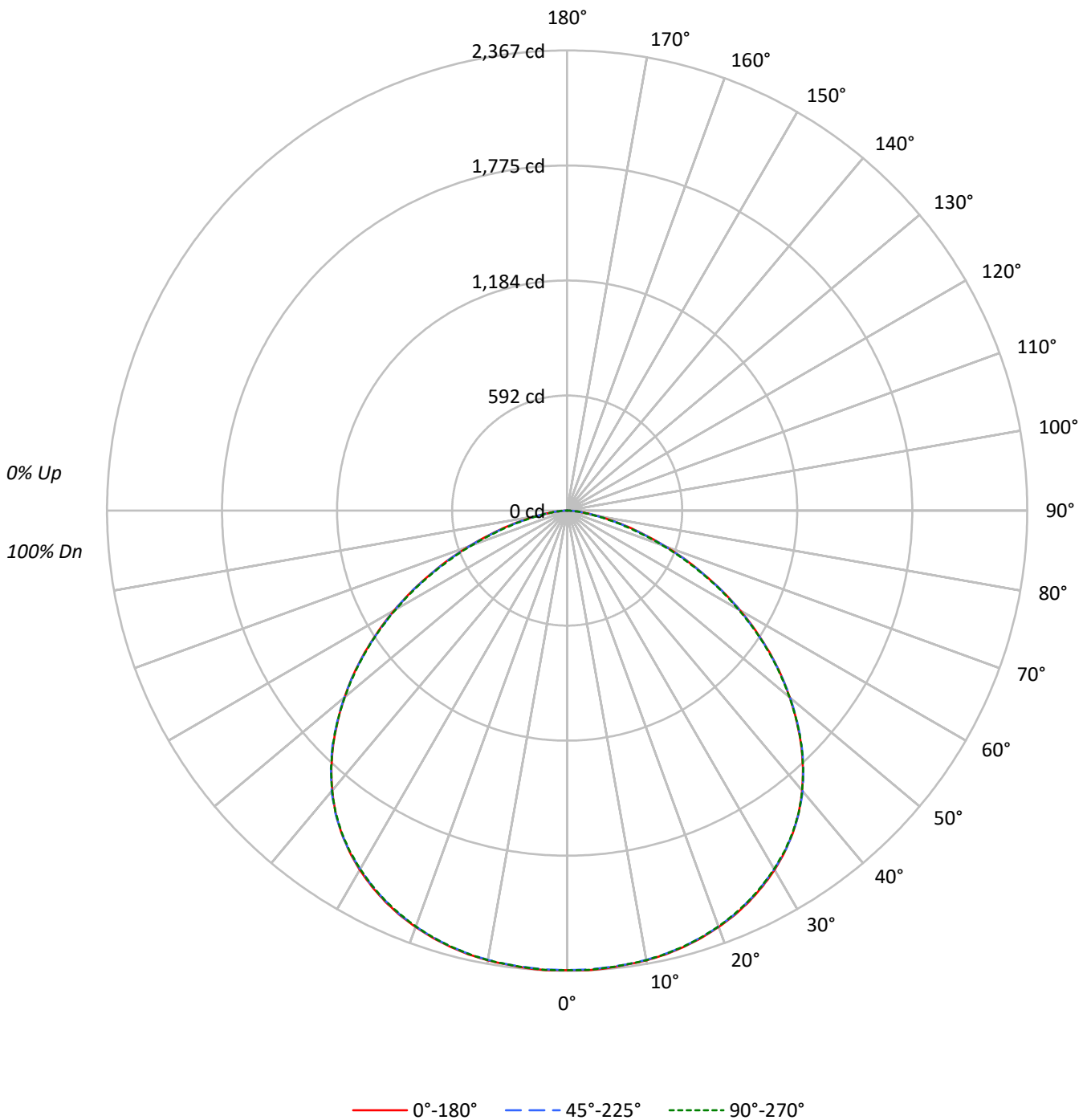
Test Method: LM-79-08  
Report Number: P412809  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-80-PP3-L935  
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6782.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 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): 72.6  
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°	6361	6361	6361
5°	6381	6373	6377
10°	6420	6412	6416
15°	6471	6464	6464
20°	6527	6521	6518
25°	6585	6573	6573
30°	6632	6619	6617
35°	6650	6650	6643
40°	6607	6621	6607
45°	6476	6494	6485
50°	6258	6268	6252
55°	5958	5943	5932
60°	5530	5518	5476
65°	4940	4935	4880
70°	4223	4198	4105
75°	3365	3266	3168
80°	2397	2348	2225
85°	1559	1559	1510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.8	3.3
10°-20°	655.7	9.7
20°-30°	1021.0	15.1
30°-40°	1263.7	18.6
40°-50°	1310.4	19.3
50°-60°	1129.5	16.7
60°-70°	767.9	11.3
70°-80°	343.6	5.1
80°-90°	65.4	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°	1901.5	28.0
0°-40°	3165.2	46.7
0°-60°	5605.1	82.6
0°-90°	6782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6782.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2364	2364	2364	2364	2364	
5°	2362	2358	2359	2358	2361	225
15°	2323	2319	2320	2319	2320	657
25°	2218	2215	2214	2213	2214	1023
35°	2024	2022	2024	2021	2022	1265
45°	1702	1700	1706	1702	1704	1310
55°	1270	1265	1267	1264	1264	1132
65°	776	782	775	773	766	770
75°	324	324	314	312	305	348
85°	50	52	50	49	49	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2363.8	2363.8	2363.8	2363.8	2363.8
2.5°	2367.0	2362.3	2362.3	2363.0	2365.4
5°	2362.3	2357.5	2359.1	2358.3	2360.7
7.5°	2355.9	2352.0	2354.4	2352.8	2354.4
10°	2349.6	2345.7	2346.5	2345.7	2348.0
12.5°	2338.6	2333.8	2335.4	2335.4	2336.2
15°	2322.8	2318.8	2320.4	2318.8	2320.4
17.5°	2303.8	2299.1	2299.9	2299.1	2300.7
20°	2279.4	2276.2	2277.0	2275.4	2276.2
22.5°	2251.8	2247.8	2248.6	2247.0	2247.0
25°	2217.8	2214.7	2213.9	2213.1	2213.9
27.5°	2178.4	2174.4	2174.4	2173.6	2173.6
30°	2134.2	2130.2	2130.2	2129.4	2129.4
32.5°	2082.1	2080.5	2081.3	2079.7	2078.9
35°	2024.4	2022.1	2024.4	2021.3	2022.1
37.5°	1957.4	1954.2	1958.9	1955.8	1956.6
40°	1880.8	1879.2	1884.7	1882.4	1880.8
42.5°	1795.6	1795.6	1797.9	1798.7	1797.1
45°	1701.6	1700.1	1706.4	1702.4	1704.0
47.5°	1600.6	1598.2	1603.0	1602.2	1601.4
50°	1494.9	1493.3	1497.2	1493.3	1493.3
52.5°	1385.1	1384.4	1385.1	1381.2	1380.4
55°	1269.9	1265.2	1266.8	1264.4	1264.4
57.5°	1149.9	1144.4	1145.2	1144.4	1145.2
60°	1027.6	1026.0	1025.2	1021.3	1017.4
62.5°	902.1	903.7	902.9	897.4	893.4
65°	775.8	782.2	775.1	772.7	766.4
67.5°	656.7	659.0	654.3	648.8	641.7
70°	536.7	541.4	533.5	528.0	521.7
72.5°	422.3	425.4	418.3	415.2	407.3
75°	323.6	324.4	314.1	312.5	304.7
77.5°	230.5	233.6	225.7	225.7	217.8
80°	154.7	160.2	151.5	149.2	143.6
82.5°	97.1	97.9	95.5	93.1	90.8
85°	50.5	52.1	50.5	48.9	48.9
87.5°	18.9	19.7	18.9	18.2	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)