

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: P412451

Luminaire Tested: **22PD-70-PB1-L950**

Issue Date: 9/15/2020



**Test Information**

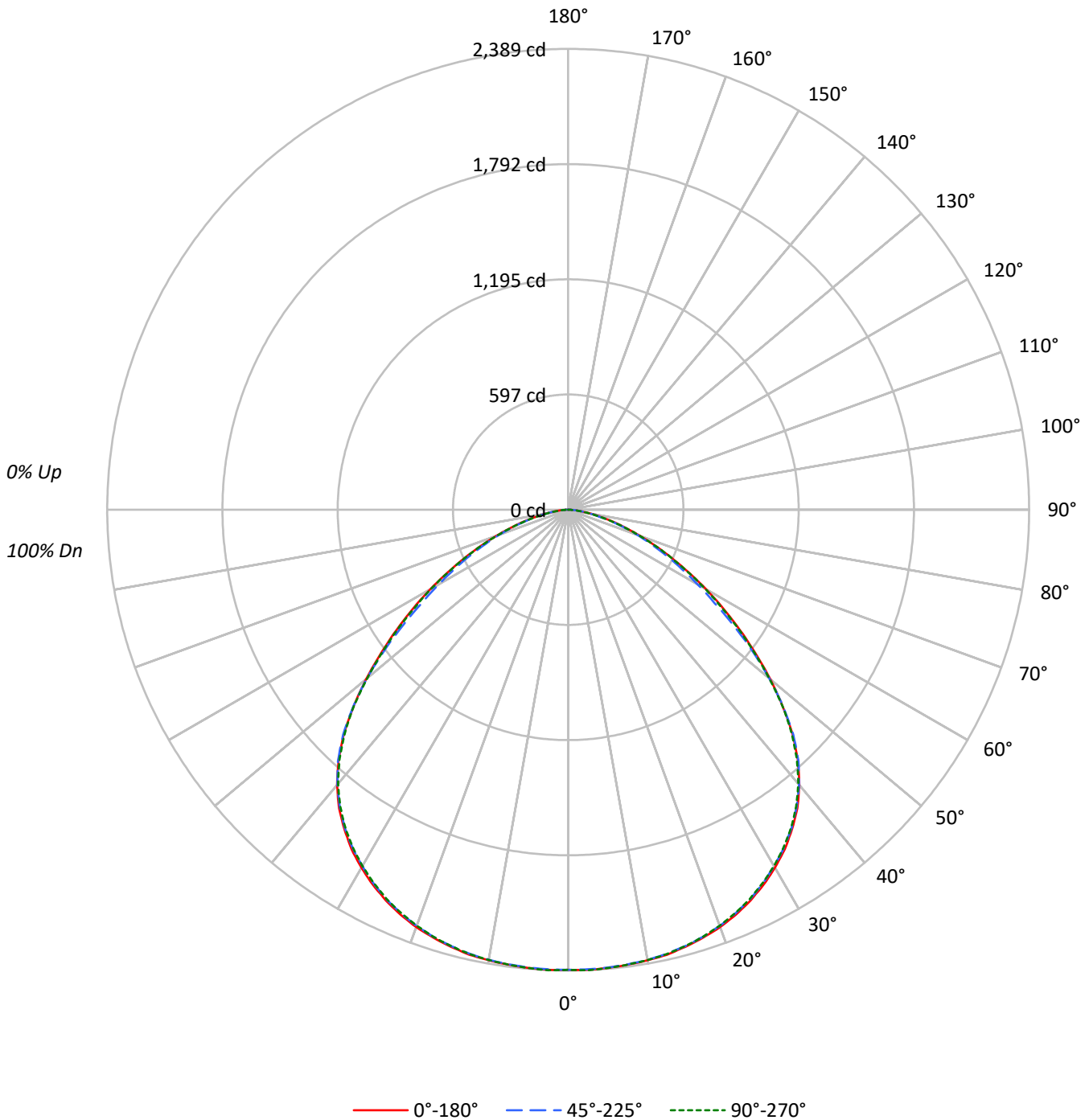
Test Method: LM-79-08  
Report Number: P412451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-70-PB1-L950  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6263.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 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): 63  
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	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					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°	6420	6420	6420
5°	6440	6434	6442
10°	6482	6474	6478
15°	6535	6525	6525
20°	6595	6576	6572
25°	6636	6617	6610
30°	6659	6631	6627
35°	6644	6625	6613
40°	6545	6538	6517
45°	6257	6277	6229
50°	5728	5698	5691
55°	5091	4911	5056
60°	4439	4168	4411
65°	3762	3560	3743
70°	3111	2984	3082
75°	2516	2355	2416
80°	1818	1760	1750
85°	1186	1186	1139



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.0	3.6
10°-20°	662.0	10.6
20°-30°	1027.2	16.4
30°-40°	1259.7	20.1
40°-50°	1259.2	20.1
50°-60°	953.9	15.2
60°-70°	572.1	9.1
70°-80°	251.9	4.0
80°-90°	50.0	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°	1916.2	30.6
0°-40°	3176.0	50.7
0°-60°	5389.0	86.0
0°-90°	6263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6263.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2386	2386	2386	2386	2386	
5°	2384	2381	2382	2381	2385	227
15°	2346	2344	2342	2341	2342	663
25°	2235	2231	2228	2225	2226	1030
35°	2023	2022	2017	2015	2013	1263
45°	1644	1646	1649	1645	1637	1259
55°	1085	1062	1047	1061	1078	973
65°	591	570	559	569	588	591
75°	242	237	226	230	232	258
85°	38	40	38	37	37	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2385.6	2385.6	2385.6	2385.6	2385.6
2.5°	2387.8	2384.1	2384.8	2384.8	2389.3
5°	2384.1	2381.1	2381.9	2381.1	2384.8
7.5°	2378.9	2376.0	2376.7	2376.0	2378.2
10°	2372.3	2369.3	2369.3	2367.9	2370.8
12.5°	2363.4	2359.8	2358.3	2357.5	2359.8
15°	2345.7	2343.5	2342.0	2340.6	2342.0
17.5°	2326.6	2322.9	2321.4	2318.4	2321.4
20°	2303.0	2297.8	2296.3	2294.1	2294.8
22.5°	2272.0	2267.5	2265.3	2261.6	2263.1
25°	2235.1	2230.7	2228.5	2224.8	2226.2
27.5°	2192.3	2189.4	2184.2	2181.2	2182.0
30°	2142.9	2139.9	2134.0	2132.6	2132.6
32.5°	2088.3	2084.6	2079.4	2078.0	2077.2
35°	2022.6	2021.9	2016.7	2015.3	2013.1
37.5°	1951.1	1949.6	1943.7	1942.2	1940.0
40°	1863.3	1861.8	1861.1	1858.1	1855.2
42.5°	1761.5	1763.7	1765.2	1759.3	1753.4
45°	1644.2	1646.4	1649.4	1645.0	1636.9
47.5°	1507.0	1515.9	1511.5	1514.4	1506.3
50°	1368.3	1368.3	1361.0	1363.9	1359.5
52.5°	1223.0	1211.2	1202.4	1208.3	1214.2
55°	1085.1	1061.5	1046.7	1060.7	1077.7
57.5°	953.0	925.0	897.7	919.9	940.5
60°	824.7	792.2	774.5	790.8	819.5
62.5°	703.0	679.4	661.7	674.2	698.6
65°	590.9	570.2	559.1	568.7	587.9
67.5°	488.3	474.3	463.2	471.4	486.1
70°	395.4	391.7	379.2	382.8	391.7
72.5°	310.6	309.8	298.7	301.7	306.9
75°	242.0	236.8	226.5	230.1	232.4
77.5°	171.1	173.3	163.8	166.0	166.0
80°	117.3	121.0	113.6	112.1	112.9
82.5°	74.5	74.5	73.8	73.0	70.8
85°	38.4	39.8	38.4	36.9	36.9
87.5°	14.8	14.8	14.8	14.0	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)