

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: P412698

Luminaire Tested: **22PD-20-PP3-L850**

Issue Date: 9/15/2020



**Test Information**

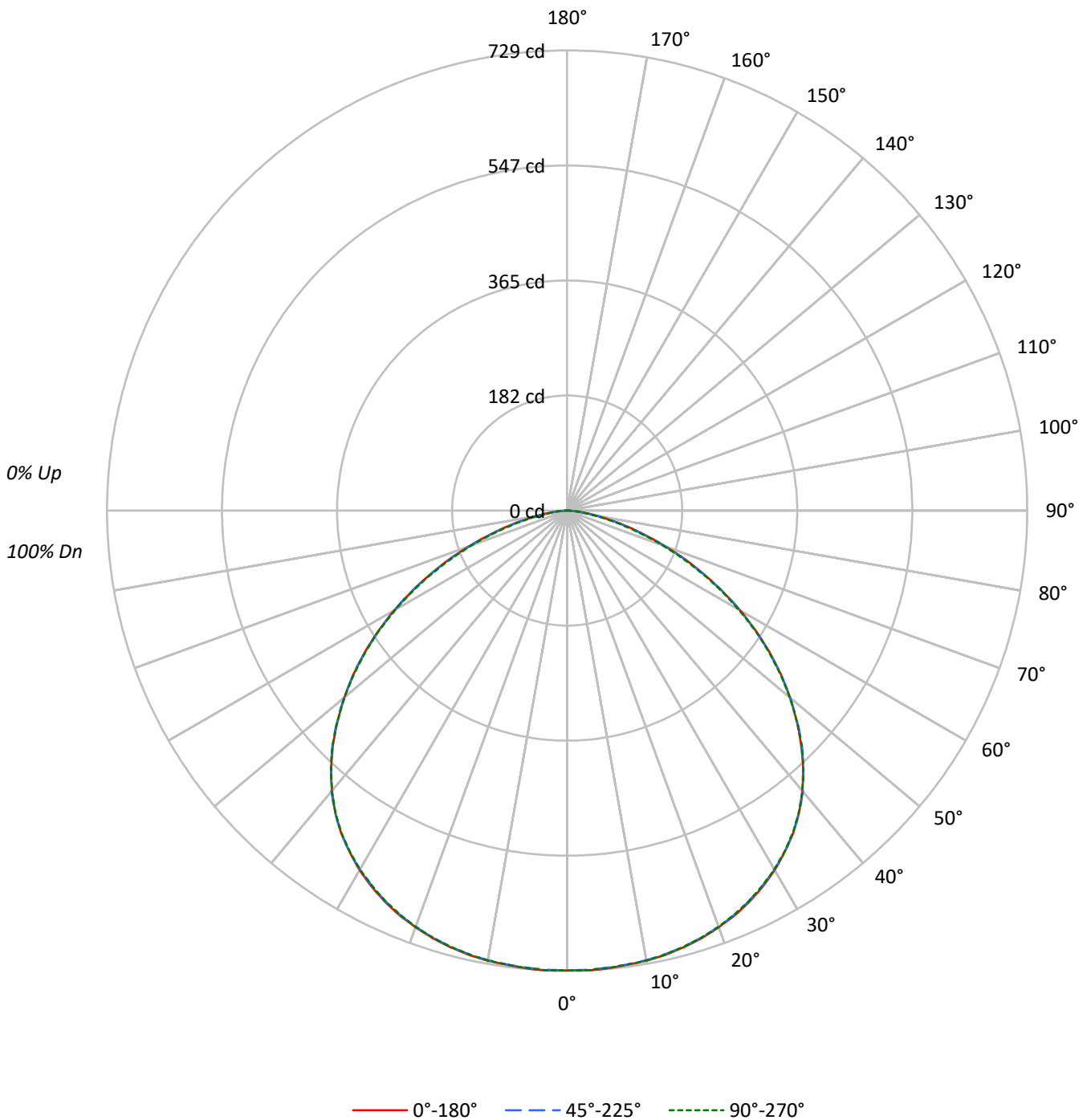
Test Method: LM-79-08  
Report Number: P412698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-20-PP3-L850  
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2090.0 lumens  
Efficiency: N/A  
Efficacy: 123.7 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): 16.9  
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°	1960	1960	1960
5°	1967	1964	1965
10°	1979	1976	1977
15°	1994	1992	1992
20°	2011	2009	2009
25°	2029	2026	2026
30°	2044	2040	2039
35°	2050	2050	2047
40°	2036	2040	2036
45°	1996	2001	1998
50°	1929	1932	1927
55°	1836	1832	1828
60°	1704	1700	1687
65°	1522	1521	1504
70°	1301	1293	1265
75°	1037	1006	976
80°	739	724	687
85°	482	482	466



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.3	3.3
10°-20°	202.1	9.7
20°-30°	314.6	15.1
30°-40°	389.4	18.6
40°-50°	403.8	19.3
50°-60°	348.1	16.7
60°-70°	236.6	11.3
70°-80°	105.9	5.1
80°-90°	20.2	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°	586.0	28.0
0°-40°	975.4	46.7
0°-60°	1727.3	82.6
0°-90°	2090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	728	726	727	727	728	69
15°	716	715	715	715	715	202
25°	684	682	682	682	682	315
35°	624	623	624	623	623	390
45°	524	524	526	525	525	404
55°	391	390	390	390	390	349
65°	239	241	239	238	236	237
75°	100	100	97	96	94	107
85°	16	16	16	15	15	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	728.5	728.5	728.5	728.5	728.5
2.5°	729.4	728.0	728.0	728.2	728.9
5°	728.0	726.5	727.0	726.8	727.5
7.5°	726.0	724.8	725.5	725.1	725.5
10°	724.1	722.9	723.1	722.9	723.6
12.5°	720.7	719.2	719.7	719.7	719.9
15°	715.8	714.6	715.1	714.6	715.1
17.5°	710.0	708.5	708.8	708.5	709.0
20°	702.4	701.5	701.7	701.2	701.5
22.5°	693.9	692.7	692.9	692.5	692.5
25°	683.5	682.5	682.2	682.0	682.2
27.5°	671.3	670.1	670.1	669.8	669.8
30°	657.7	656.5	656.5	656.2	656.2
32.5°	641.6	641.1	641.4	640.9	640.7
35°	623.9	623.1	623.9	622.9	623.1
37.5°	603.2	602.2	603.7	602.7	603.0
40°	579.6	579.1	580.8	580.1	579.6
42.5°	553.3	553.3	554.1	554.3	553.8
45°	524.4	523.9	525.9	524.6	525.1
47.5°	493.3	492.5	494.0	493.7	493.5
50°	460.7	460.2	461.4	460.2	460.2
52.5°	426.9	426.6	426.9	425.6	425.4
55°	391.3	389.9	390.4	389.6	389.6
57.5°	354.4	352.7	352.9	352.7	352.9
60°	316.7	316.2	315.9	314.7	313.5
62.5°	278.0	278.5	278.2	276.5	275.3
65°	239.1	241.0	238.8	238.1	236.2
67.5°	202.4	203.1	201.6	199.9	197.7
70°	165.4	166.9	164.4	162.7	160.8
72.5°	130.1	131.1	128.9	127.9	125.5
75°	99.7	100.0	96.8	96.3	93.9
77.5°	71.0	72.0	69.6	69.6	67.1
80°	47.7	49.4	46.7	46.0	44.3
82.5°	29.9	30.2	29.4	28.7	28.0
85°	15.6	16.1	15.6	15.1	15.1
87.5°	5.8	6.1	5.8	5.6	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)