

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: P412706

Luminaire Tested: **22PD-25-PP3-L840**

Issue Date: 9/15/2020



**Test Information**

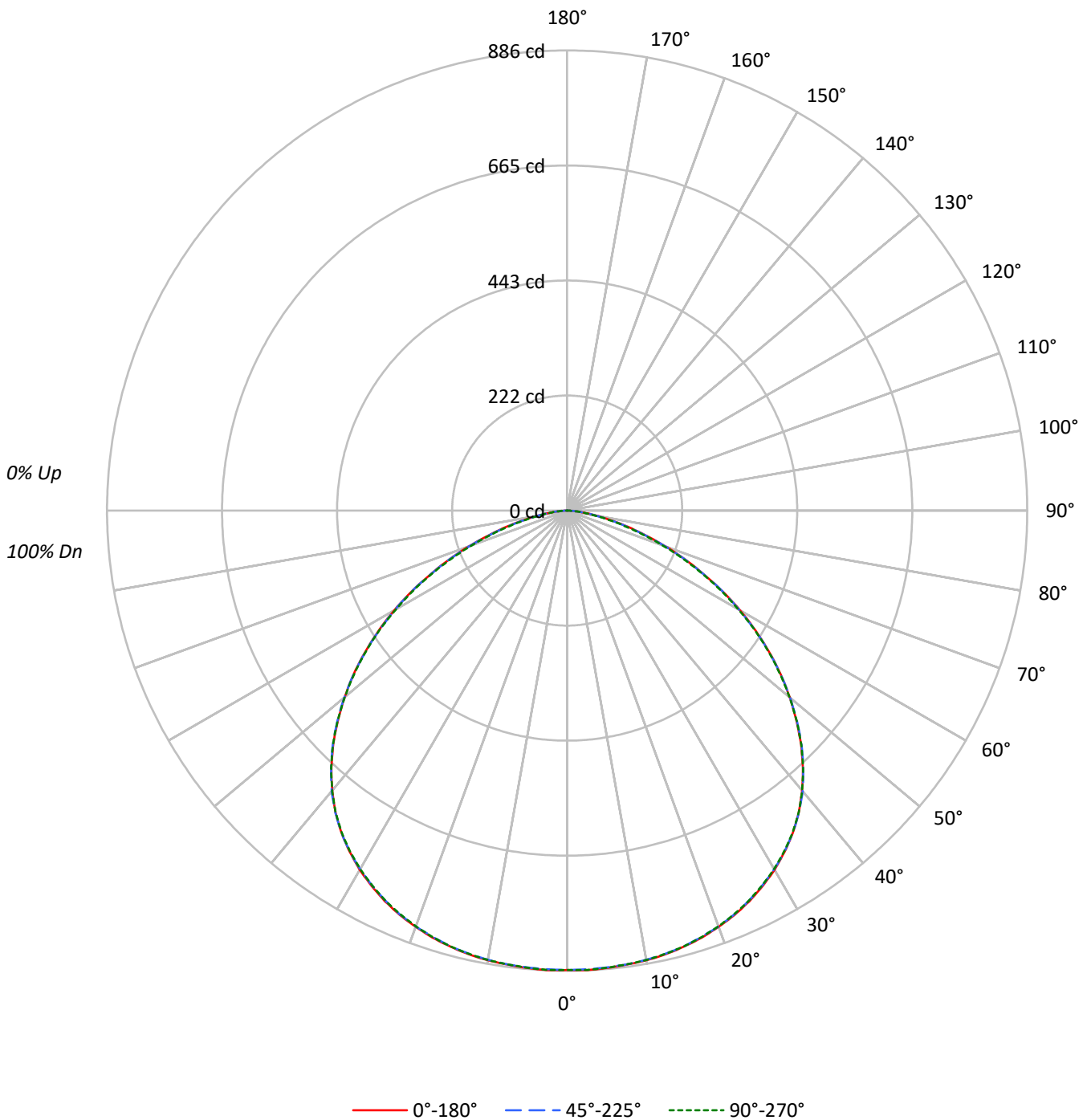
Test Method: LM-79-08  
Report Number: P412706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-25-PP3-L840  
Description: 2500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2538.0 lumens  
Efficiency: N/A  
Efficacy: 124.4 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): 20.4  
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	51	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°	2380	2380	2380
5°	2388	2385	2386
10°	2403	2399	2401
15°	2422	2419	2419
20°	2443	2440	2439
25°	2464	2460	2460
30°	2482	2477	2476
35°	2489	2489	2486
40°	2472	2478	2472
45°	2423	2430	2427
50°	2342	2346	2339
55°	2229	2224	2220
60°	2070	2065	2049
65°	1848	1847	1826
70°	1580	1571	1536
75°	1259	1223	1185
80°	897	879	834
85°	584	584	565



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	3.3
10°-20°	245.4	9.7
20°-30°	382.1	15.1
30°-40°	472.9	18.6
40°-50°	490.4	19.3
50°-60°	422.7	16.7
60°-70°	287.4	11.3
70°-80°	128.6	5.1
80°-90°	24.5	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°	711.6	28.0
0°-40°	1184.5	46.7
0°-60°	2097.6	82.6
0°-90°	2538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	885	885	885	885	885	
5°	884	882	883	882	883	84
15°	869	868	868	868	868	246
25°	830	829	828	828	828	383
35°	758	757	758	756	757	473
45°	637	636	639	637	638	490
55°	475	474	474	473	473	424
65°	290	293	290	289	287	288
75°	121	121	118	117	114	130
85°	19	20	19	18	18	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	884.6	884.6	884.6	884.6	884.6
2.5°	885.8	884.0	884.0	884.3	885.2
5°	884.0	882.2	882.8	882.5	883.4
7.5°	881.7	880.2	881.1	880.5	881.1
10°	879.3	877.8	878.1	877.8	878.7
12.5°	875.2	873.4	874.0	874.0	874.3
15°	869.2	867.8	868.4	867.8	868.4
17.5°	862.2	860.4	860.7	860.4	861.0
20°	853.0	851.8	852.1	851.5	851.8
22.5°	842.7	841.2	841.5	840.9	840.9
25°	830.0	828.8	828.5	828.2	828.5
27.5°	815.2	813.7	813.7	813.4	813.4
30°	798.7	797.2	797.2	796.9	796.9
32.5°	779.2	778.6	778.9	778.3	778.0
35°	757.6	756.7	757.6	756.4	756.7
37.5°	732.5	731.3	733.1	731.9	732.2
40°	703.8	703.3	705.3	704.4	703.8
42.5°	671.9	671.9	672.8	673.1	672.5
45°	636.8	636.2	638.6	637.1	637.7
47.5°	599.0	598.1	599.9	599.6	599.3
50°	559.4	558.8	560.3	558.8	558.8
52.5°	518.4	518.1	518.4	516.9	516.6
55°	475.2	473.5	474.1	473.2	473.2
57.5°	430.3	428.3	428.6	428.3	428.6
60°	384.6	384.0	383.7	382.2	380.7
62.5°	337.6	338.2	337.9	335.8	334.3
65°	290.3	292.7	290.0	289.2	286.8
67.5°	245.7	246.6	244.9	242.8	240.1
70°	200.8	202.6	199.7	197.6	195.2
72.5°	158.0	159.2	156.5	155.4	152.4
75°	121.1	121.4	117.6	117.0	114.0
77.5°	86.2	87.4	84.5	84.5	81.5
80°	57.9	60.0	56.7	55.8	53.8
82.5°	36.3	36.6	35.7	34.9	34.0
85°	18.9	19.5	18.9	18.3	18.3
87.5°	7.1	7.4	7.1	6.8	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)