

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: P412697

Luminaire Tested: **22PD-20-PP3-L840**

Issue Date: 9/15/2020



**Test Information**

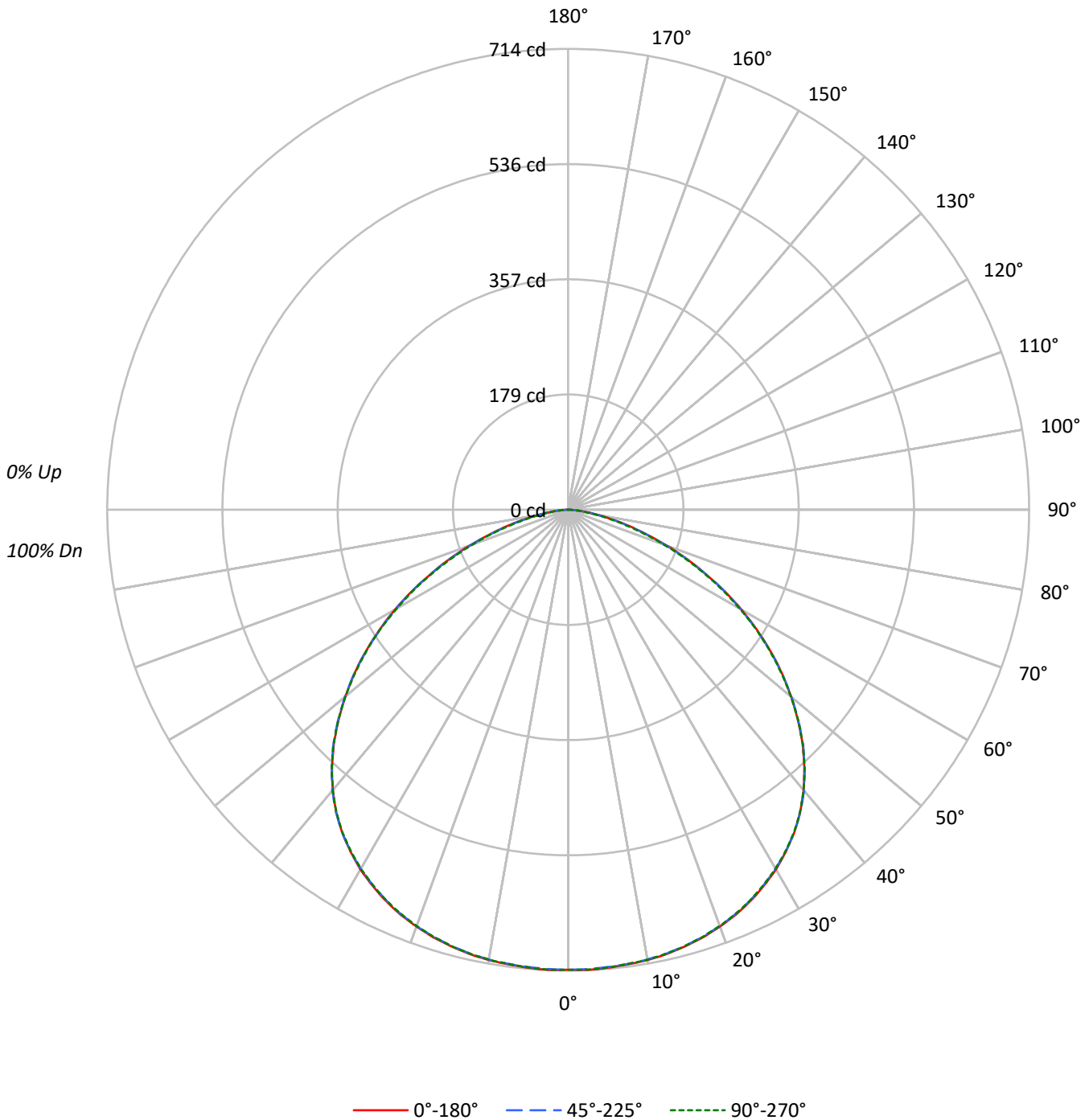
Test Method: LM-79-08  
Report Number: P412697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-20-PP3-L840  
Description: 2000 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: 2045.0 lumens  
Efficiency: N/A  
Efficacy: 121.0 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°	1918	1918	1918
5°	1924	1921	1923
10°	1936	1933	1935
15°	1951	1949	1949
20°	1968	1966	1966
25°	1985	1982	1982
30°	2000	1996	1995
35°	2005	2005	2003
40°	1992	1996	1992
45°	1953	1958	1955
50°	1887	1890	1885
55°	1796	1792	1789
60°	1668	1664	1651
65°	1489	1488	1472
70°	1273	1266	1238
75°	1015	985	955
80°	722	708	671
85°	469	469	457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	3.3
10°-20°	197.7	9.7
20°-30°	307.9	15.1
30°-40°	381.0	18.6
40°-50°	395.1	19.3
50°-60°	340.6	16.7
60°-70°	231.5	11.3
70°-80°	103.6	5.1
80°-90°	19.7	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°	573.4	28.0
0°-40°	954.4	46.7
0°-60°	1690.1	82.6
0°-90°	2045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2045.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	712	711	711	711	712	68
15°	700	699	700	699	700	198
25°	669	668	668	667	668	308
35°	610	610	610	610	610	381
45°	513	513	514	513	514	395
55°	383	382	382	381	381	341
65°	234	236	234	233	231	232
75°	98	98	95	94	92	105
85°	15	16	15	15	15	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	712.8	712.8	712.8	712.8	712.8
2.5°	713.7	712.3	712.3	712.5	713.2
5°	712.3	710.9	711.3	711.1	711.8
7.5°	710.4	709.2	709.9	709.4	709.9
10°	708.5	707.3	707.5	707.3	708.0
12.5°	705.2	703.7	704.2	704.2	704.4
15°	700.4	699.2	699.7	699.2	699.7
17.5°	694.7	693.3	693.5	693.3	693.7
20°	687.3	686.4	686.6	686.1	686.4
22.5°	679.0	677.8	678.0	677.6	677.6
25°	668.7	667.8	667.6	667.3	667.6
27.5°	656.8	655.7	655.7	655.4	655.4
30°	643.5	642.3	642.3	642.1	642.1
32.5°	627.8	627.3	627.6	627.1	626.9
35°	610.4	609.7	610.4	609.5	609.7
37.5°	590.2	589.3	590.7	589.7	590.0
40°	567.1	566.6	568.3	567.6	567.1
42.5°	541.4	541.4	542.1	542.4	541.9
45°	513.1	512.6	514.5	513.3	513.8
47.5°	482.6	481.9	483.4	483.1	482.9
50°	450.7	450.3	451.5	450.3	450.3
52.5°	417.7	417.4	417.7	416.5	416.2
55°	382.9	381.5	382.0	381.3	381.3
57.5°	346.7	345.1	345.3	345.1	345.3
60°	309.9	309.4	309.1	308.0	306.8
62.5°	272.0	272.5	272.3	270.6	269.4
65°	233.9	235.8	233.7	233.0	231.1
67.5°	198.0	198.7	197.3	195.6	193.5
70°	161.8	163.3	160.9	159.2	157.3
72.5°	127.3	128.3	126.1	125.2	122.8
75°	97.6	97.8	94.7	94.2	91.9
77.5°	69.5	70.4	68.1	68.1	65.7
80°	46.6	48.3	45.7	45.0	43.3
82.5°	29.3	29.5	28.8	28.1	27.4
85°	15.2	15.7	15.2	14.8	14.8
87.5°	5.7	5.9	5.7	5.5	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)