

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: P412787

Luminaire Tested: **22PD-70-PP3-L840**

Issue Date: 9/15/2020



**Test Information**

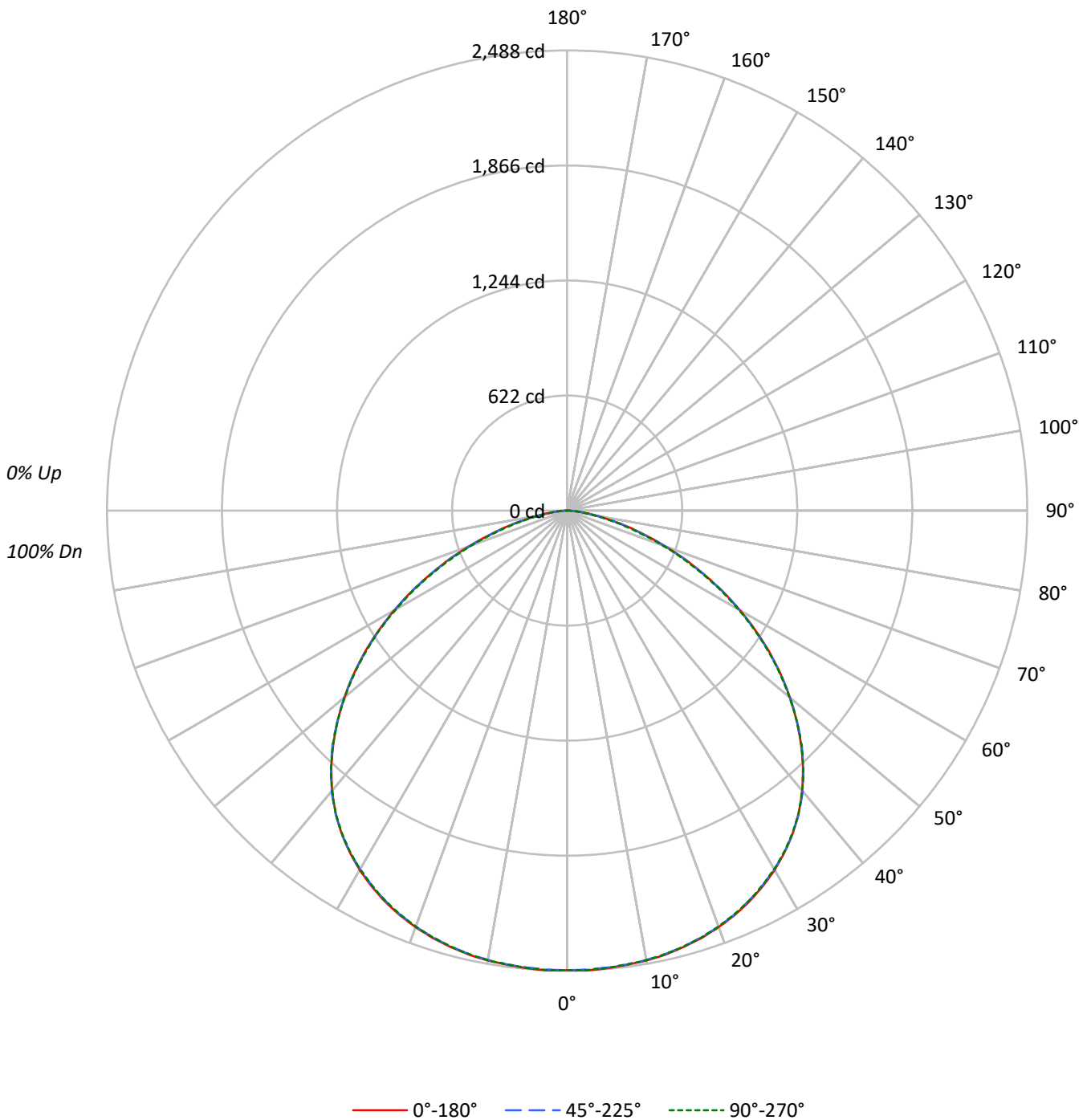
Test Method: LM-79-08  
Report Number: P412787  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-70-PP3-L840  
Description: 7000 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: 7130.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 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): 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	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°	6687	6687	6687
5°	6709	6699	6704
10°	6750	6741	6745
15°	6803	6796	6796
20°	6862	6855	6853
25°	6923	6911	6911
30°	6972	6959	6956
35°	6992	6992	6983
40°	6946	6961	6946
45°	6808	6827	6817
50°	6579	6589	6572
55°	6264	6248	6237
60°	5814	5801	5757
65°	5194	5188	5130
70°	4439	4413	4316
75°	3537	3433	3330
80°	2520	2469	2340
85°	1639	1639	1587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.3	3.3
10°-20°	689.4	9.7
20°-30°	1073.4	15.1
30°-40°	1328.5	18.6
40°-50°	1377.6	19.3
50°-60°	1187.4	16.7
60°-70°	807.3	11.3
70°-80°	361.2	5.1
80°-90°	68.8	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°	1999.1	28.0
0°-40°	3327.7	46.7
0°-60°	5892.7	82.6
0°-90°	7130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7130.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2485	2485	2485	2485	2485	
5°	2484	2478	2480	2479	2482	237
15°	2442	2438	2440	2438	2440	690
25°	2332	2328	2328	2327	2328	1075
35°	2128	2126	2128	2125	2126	1329
45°	1789	1787	1794	1790	1791	1377
55°	1335	1330	1332	1329	1329	1190
65°	816	822	815	812	806	810
75°	340	341	330	329	320	366
85°	53	55	53	51	51	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2485.1	2485.1	2485.1	2485.1	2485.1
2.5°	2488.4	2483.5	2483.5	2484.3	2486.8
5°	2483.5	2478.5	2480.1	2479.3	2481.8
7.5°	2476.8	2472.7	2475.2	2473.5	2475.2
10°	2470.2	2466.0	2466.9	2466.0	2468.5
12.5°	2458.6	2453.6	2455.3	2455.3	2456.1
15°	2442.0	2437.8	2439.5	2437.8	2439.5
17.5°	2422.1	2417.1	2417.9	2417.1	2418.7
20°	2396.3	2393.0	2393.8	2392.2	2393.0
22.5°	2367.3	2363.1	2364.0	2362.3	2362.3
25°	2331.6	2328.3	2327.5	2326.6	2327.5
27.5°	2290.1	2286.0	2286.0	2285.2	2285.2
30°	2243.7	2239.5	2239.5	2238.7	2238.7
32.5°	2188.9	2187.2	2188.1	2186.4	2185.6
35°	2128.3	2125.8	2128.3	2125.0	2125.8
37.5°	2057.8	2054.5	2059.5	2056.1	2057.0
40°	1977.3	1975.7	1981.5	1979.0	1977.3
42.5°	1887.7	1887.7	1890.2	1891.0	1889.4
45°	1789.0	1787.3	1793.9	1789.8	1791.4
47.5°	1682.7	1680.3	1685.2	1684.4	1683.6
50°	1571.6	1569.9	1574.0	1569.9	1569.9
52.5°	1456.2	1455.4	1456.2	1452.1	1451.2
55°	1335.1	1330.1	1331.8	1329.3	1329.3
57.5°	1209.0	1203.1	1204.0	1203.1	1204.0
60°	1080.3	1078.7	1077.9	1073.7	1069.6
62.5°	948.4	950.1	949.2	943.4	939.3
65°	815.7	822.3	814.8	812.3	805.7
67.5°	690.4	692.8	687.9	682.1	674.6
70°	564.2	569.2	560.9	555.1	548.5
72.5°	443.9	447.2	439.8	436.5	428.2
75°	340.2	341.0	330.2	328.6	320.3
77.5°	242.3	245.6	237.3	237.3	229.0
80°	162.6	168.4	159.3	156.8	151.0
82.5°	102.1	102.9	100.4	97.9	95.4
85°	53.1	54.8	53.1	51.4	51.4
87.5°	19.9	20.7	19.9	19.1	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)