

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: P412805

Luminaire Tested: **22PD-80-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412805
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-80-PP3-L840
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

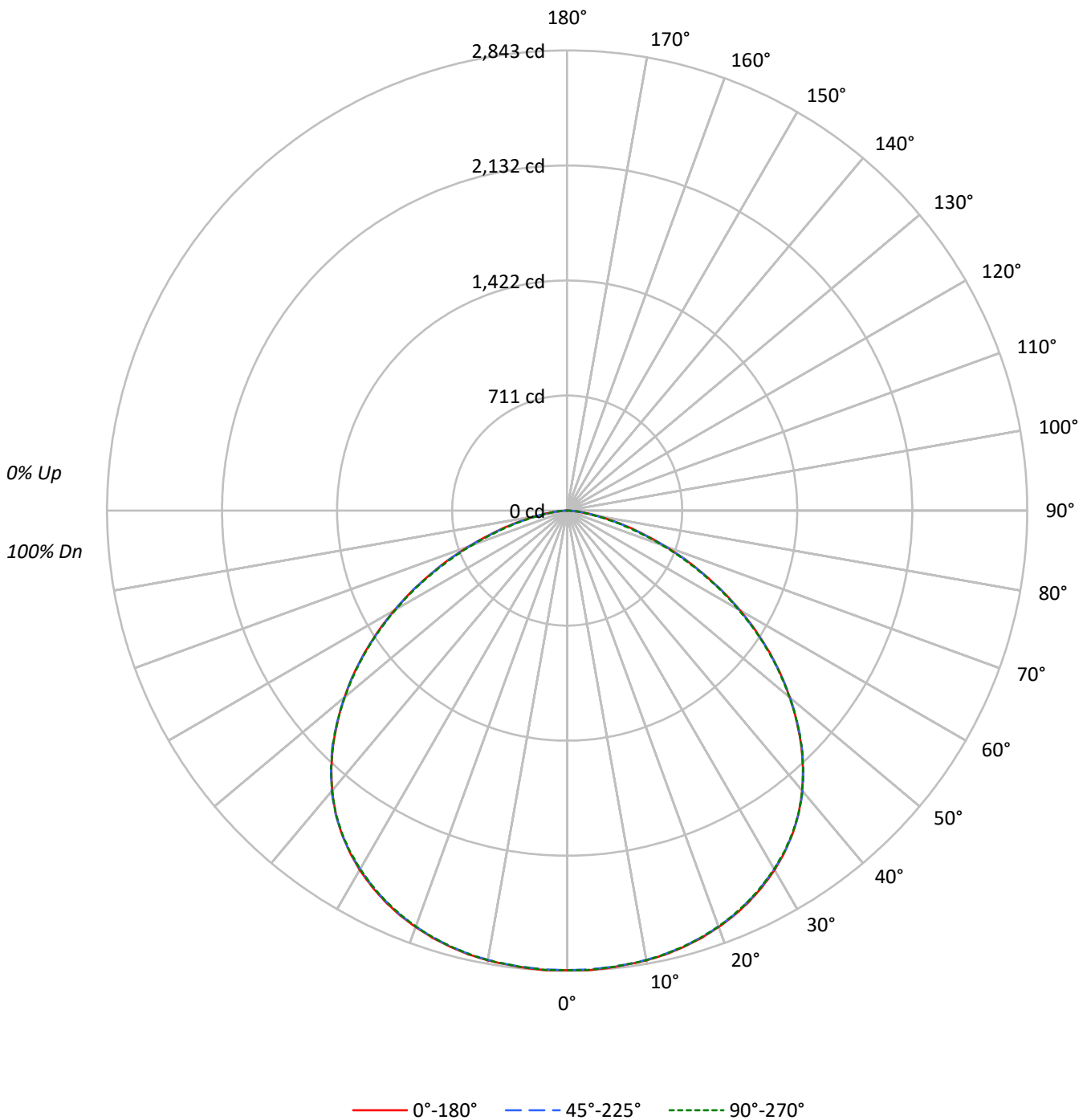
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8146.0 lumens
Efficiency: N/A
Efficacy: 112.2 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): 72.6
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

TEST NUMBER: P412805
CATALOG NUMBER: 22PD-80-PP3-L840

Luminous Intensity Polar Plot





TEST NUMBER: P412805

CATALOG NUMBER: 22PD-80-PP3-L840

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°	7640	7640	7640
5°	7664	7654	7659
10°	7712	7701	7706
15°	7772	7765	7765
20°	7840	7832	7829
25°	7910	7895	7895
30°	7965	7950	7947
35°	7988	7988	7979
40°	7936	7952	7936
45°	7778	7800	7789
50°	7517	7528	7509
55°	7156	7138	7125
60°	6643	6627	6577
65°	5934	5927	5861
70°	5072	5042	4930
75°	4041	3923	3804
80°	2879	2820	2673
85°	1874	1874	1815



TEST NUMBER: P412805

CATALOG NUMBER: 22PD-80-PP3-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	3.3
10°-20°	787.6	9.7
20°-30°	1226.4	15.1
30°-40°	1517.9	18.6
40°-50°	1573.9	19.3
50°-60°	1356.6	16.7
60°-70°	922.3	11.3
70°-80°	412.7	5.1
80°-90°	78.6	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°	2284.0	28.0
0°-40°	3801.8	46.7
0°-60°	6732.4	82.6
0°-90°	8146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2839	2839	2839	2839	2839	
5°	2837	2832	2834	2833	2836	270
15°	2790	2785	2787	2785	2787	789
25°	2664	2660	2659	2658	2659	1228
35°	2432	2429	2432	2428	2429	1519
45°	2044	2042	2050	2045	2047	1573
55°	1525	1520	1522	1519	1519	1360
65°	932	940	931	928	920	925
75°	389	390	377	375	366	418
85°	61	63	61	59	59	80
90°	0	0	0	0	0	



TEST NUMBER: P412805

CATALOG NUMBER: 22PD-80-PP3-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2839.2	2839.2	2839.2	2839.2	2839.2
2.5°	2843.0	2837.3	2837.3	2838.3	2841.1
5°	2837.3	2831.7	2833.6	2832.6	2835.5
7.5°	2829.8	2825.0	2827.9	2826.0	2827.9
10°	2822.2	2817.4	2818.4	2817.4	2820.3
12.5°	2808.9	2803.2	2805.1	2805.1	2806.1
15°	2789.9	2785.2	2787.1	2785.2	2787.1
17.5°	2767.2	2761.5	2762.5	2761.5	2763.4
20°	2737.8	2734.0	2735.0	2733.1	2734.0
22.5°	2704.6	2699.9	2700.8	2698.9	2698.9
25°	2663.9	2660.1	2659.1	2658.2	2659.1
27.5°	2616.5	2611.7	2611.7	2610.8	2610.8
30°	2563.4	2558.6	2558.6	2557.7	2557.7
32.5°	2500.8	2498.9	2499.9	2498.0	2497.0
35°	2431.6	2428.8	2431.6	2427.8	2428.8
37.5°	2351.0	2347.2	2352.9	2349.1	2350.1
40°	2259.1	2257.2	2263.8	2261.0	2259.1
42.5°	2156.7	2156.7	2159.5	2160.5	2158.6
45°	2043.9	2042.0	2049.6	2044.8	2046.7
47.5°	1922.5	1919.7	1925.4	1924.4	1923.5
50°	1795.5	1793.6	1798.3	1793.6	1793.6
52.5°	1663.7	1662.8	1663.7	1659.0	1658.0
55°	1525.3	1519.6	1521.5	1518.7	1518.7
57.5°	1381.2	1374.6	1375.5	1374.6	1375.5
60°	1234.3	1232.4	1231.4	1226.7	1222.0
62.5°	1083.6	1085.5	1084.5	1077.9	1073.1
65°	931.9	939.5	930.9	928.1	920.5
67.5°	788.7	791.6	785.9	779.3	770.7
70°	644.6	650.3	640.8	634.2	626.6
72.5°	507.2	511.0	502.4	498.6	489.2
75°	388.7	389.6	377.3	375.4	365.9
77.5°	276.8	280.6	271.1	271.1	261.6
80°	185.8	192.4	182.0	179.2	172.5
82.5°	116.6	117.6	114.7	111.9	109.0
85°	60.7	62.6	60.7	58.8	58.8
87.5°	22.8	23.7	22.8	21.8	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)