

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: P413148

Luminaire Tested: **22PD-80-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-80-PC3-L850
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

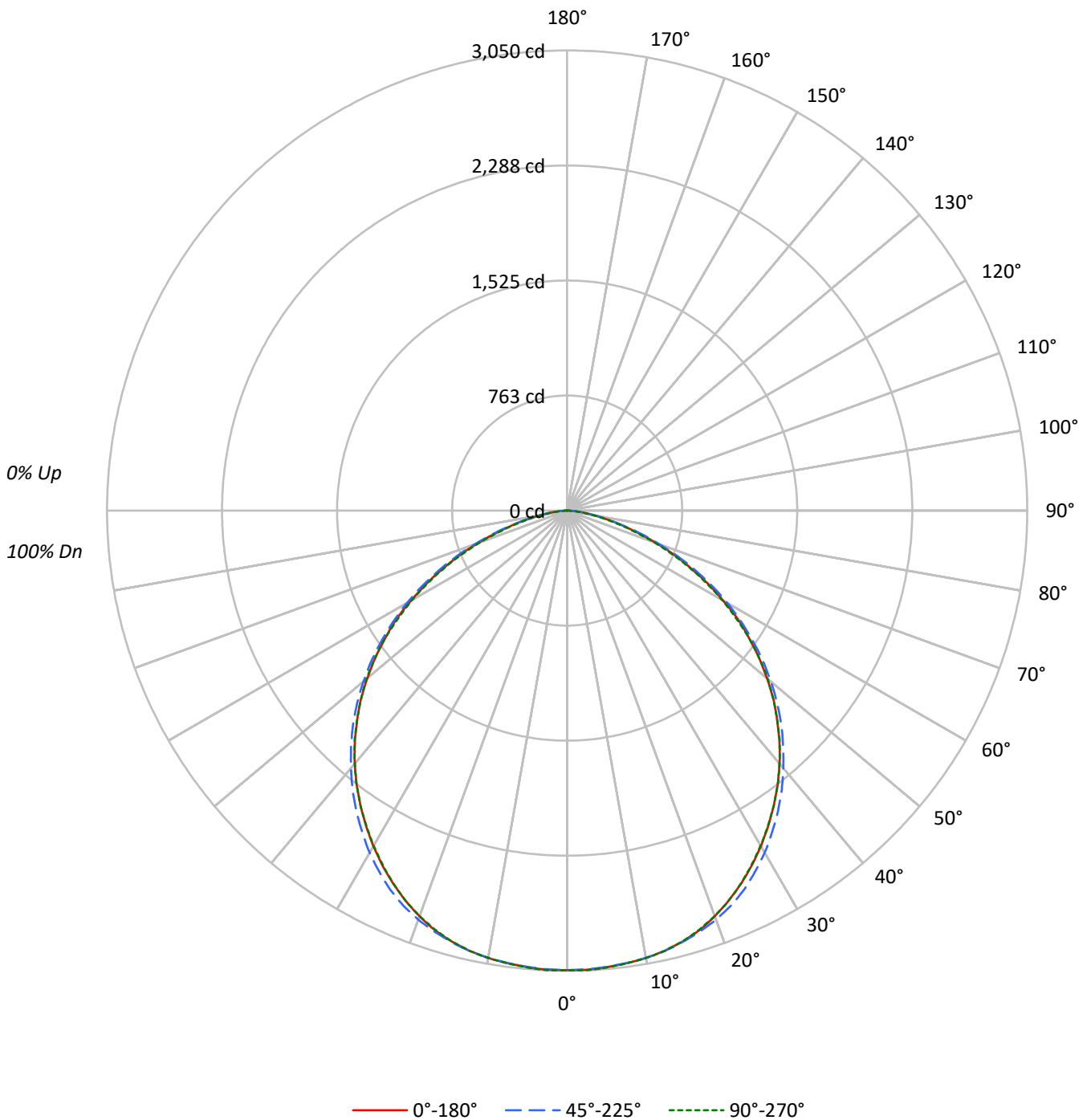
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8183.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
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

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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8197	8197	8197
5°	8207	8202	8212
10°	8228	8225	8228
15°	8238	8249	8235
20°	8196	8262	8190
25°	8100	8233	8095
30°	7981	8137	7969
35°	7842	7998	7842
40°	7695	7831	7695
45°	7492	7639	7503
50°	7236	7378	7264
55°	6900	7036	6900
60°	6434	6596	6393
65°	5774	5978	5700
70°	4939	5115	4795
75°	3919	4029	3717
80°	2808	2913	2673
85°	1856	1914	1735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.0	3.5
10°-20°	834.8	10.2
20°-30°	1266.5	15.5
30°-40°	1512.5	18.5
40°-50°	1538.2	18.8
50°-60°	1330.5	16.3
60°-70°	915.6	11.2
70°-80°	415.5	5.1
80°-90°	80.4	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°	2390.3	29.2
0°-40°	3902.8	47.7
0°-60°	6771.5	82.8
0°-90°	8183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3046	3046	3046	3046	3046	
5°	3038	3035	3036	3036	3040	289
15°	2957	2959	2961	2956	2956	834
25°	2728	2752	2773	2748	2726	1257
35°	2387	2430	2435	2426	2387	1493
45°	1969	2004	2007	2006	1972	1518
55°	1471	1496	1500	1497	1471	1314
65°	907	932	939	931	895	900
75°	377	391	388	384	358	405
85°	60	64	62	60	56	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3046.0	3046.0	3046.0	3046.0	3046.0
2.5°	3046.0	3042.2	3043.1	3044.1	3049.9
5°	3038.3	3035.4	3036.3	3036.3	3040.2
7.5°	3025.7	3024.7	3024.7	3023.7	3026.7
10°	3011.1	3009.2	3010.2	3009.2	3011.1
12.5°	2988.9	2988.9	2989.8	2986.9	2988.9
15°	2956.9	2958.8	2960.8	2955.9	2955.9
17.5°	2916.2	2921.0	2925.9	2917.2	2912.3
20°	2861.9	2873.6	2885.2	2871.6	2860.0
22.5°	2799.0	2818.4	2835.8	2814.5	2799.0
25°	2728.2	2752.5	2772.8	2747.6	2726.3
27.5°	2651.7	2678.8	2698.2	2676.9	2647.8
30°	2568.4	2601.3	2618.8	2598.4	2564.5
32.5°	2479.3	2518.0	2528.7	2516.1	2477.3
35°	2387.2	2429.8	2434.7	2426.0	2387.2
37.5°	2291.3	2332.0	2335.9	2331.0	2291.3
40°	2190.5	2228.3	2229.3	2229.3	2190.5
42.5°	2083.0	2119.8	2119.8	2118.8	2085.9
45°	1968.7	2004.5	2007.4	2005.5	1971.6
47.5°	1855.3	1882.5	1887.3	1883.4	1853.4
50°	1728.4	1756.5	1762.3	1758.4	1735.2
52.5°	1602.5	1628.6	1634.4	1631.5	1605.4
55°	1470.7	1495.9	1499.8	1496.9	1470.7
57.5°	1343.8	1360.2	1364.1	1358.3	1325.4
60°	1195.5	1218.8	1225.6	1218.8	1187.8
62.5°	1052.2	1077.3	1083.2	1073.5	1040.5
65°	906.8	932.0	938.8	931.1	895.2
67.5°	769.3	787.7	793.5	784.8	751.8
70°	627.8	651.1	650.1	638.5	609.4
72.5°	488.3	520.3	514.5	507.7	475.7
75°	376.9	391.4	387.5	383.7	357.5
77.5°	269.3	286.8	277.1	278.1	255.8
80°	181.2	197.6	188.0	184.1	172.5
82.5°	115.3	122.1	120.1	118.2	107.5
85°	60.1	63.9	62.0	60.1	56.2
87.5°	23.3	25.2	23.3	23.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)