

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: P412806

Luminaire Tested: **22PD-80-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412806
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-L850
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

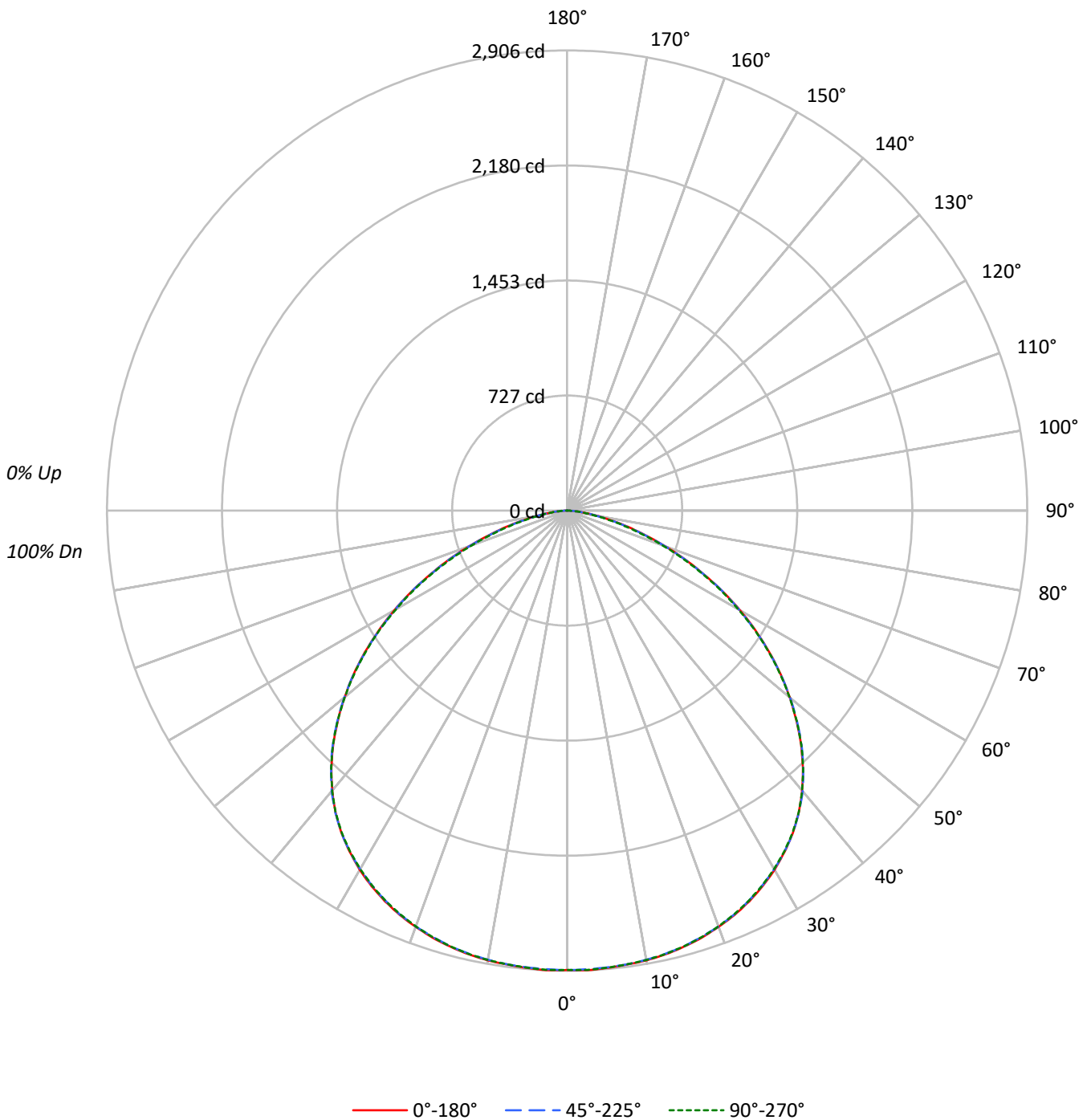
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8325.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

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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°	7808	7808	7808
5°	7833	7822	7828
10°	7881	7870	7876
15°	7943	7935	7935
20°	8013	8004	8001
25°	8083	8069	8069
30°	8140	8125	8122
35°	8163	8163	8154
40°	8110	8127	8110
45°	7949	7971	7960
50°	7682	7694	7674
55°	7313	7295	7282
60°	6789	6773	6721
65°	6064	6058	5990
70°	5183	5153	5039
75°	4130	4009	3889
80°	2943	2882	2732
85°	1914	1914	1856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.9	3.3
10°-20°	804.9	9.7
20°-30°	1253.3	15.1
30°-40°	1551.2	18.6
40°-50°	1608.5	19.3
50°-60°	1386.4	16.7
60°-70°	942.6	11.3
70°-80°	421.8	5.1
80°-90°	80.3	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°	2334.2	28.0
0°-40°	3885.4	46.7
0°-60°	6880.3	82.6
0°-90°	8325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2902	2902	2902	2902	2902	
5°	2900	2894	2896	2895	2898	276
15°	2851	2846	2848	2846	2848	806
25°	2722	2718	2718	2717	2718	1255
35°	2485	2482	2485	2481	2482	1552
45°	2089	2087	2095	2090	2092	1608
55°	1559	1553	1555	1552	1552	1390
65°	952	960	951	948	941	946
75°	397	398	386	384	374	427
85°	62	64	62	60	60	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2901.6	2901.6	2901.6	2901.6	2901.6
2.5°	2905.5	2899.7	2899.7	2900.7	2903.6
5°	2899.7	2893.9	2895.8	2894.9	2897.8
7.5°	2891.9	2887.1	2890.0	2888.1	2890.0
10°	2884.2	2879.4	2880.3	2879.4	2882.3
12.5°	2870.6	2864.8	2866.8	2866.8	2867.7
15°	2851.3	2846.4	2848.3	2846.4	2848.3
17.5°	2828.0	2822.2	2823.2	2822.2	2824.1
20°	2798.0	2794.1	2795.1	2793.1	2794.1
22.5°	2764.1	2759.2	2760.2	2758.2	2758.2
25°	2722.4	2718.5	2717.6	2716.6	2717.6
27.5°	2674.0	2669.1	2669.1	2668.1	2668.1
30°	2619.7	2614.9	2614.9	2613.9	2613.9
32.5°	2555.8	2553.8	2554.8	2552.9	2551.9
35°	2485.0	2482.1	2485.0	2481.2	2482.1
37.5°	2402.7	2398.8	2404.6	2400.8	2401.7
40°	2308.7	2306.8	2313.6	2310.7	2308.7
42.5°	2204.1	2204.1	2207.0	2208.0	2206.0
45°	2088.8	2086.9	2094.6	2089.8	2091.7
47.5°	1964.8	1961.9	1967.7	1966.7	1965.7
50°	1835.0	1833.0	1837.9	1833.0	1833.0
52.5°	1700.3	1699.3	1700.3	1695.4	1694.5
55°	1558.8	1553.0	1555.0	1552.1	1552.1
57.5°	1411.6	1404.8	1405.8	1404.8	1405.8
60°	1261.4	1259.5	1258.5	1253.7	1248.8
62.5°	1107.4	1109.3	1108.3	1101.6	1096.7
65°	952.4	960.1	951.4	948.5	940.7
67.5°	806.1	809.0	803.2	796.4	787.7
70°	658.8	664.6	654.9	648.1	640.4
72.5°	518.3	522.2	513.5	509.6	499.9
75°	397.2	398.2	385.6	383.7	374.0
77.5°	282.9	286.8	277.1	277.1	267.4
80°	189.9	196.7	186.0	183.1	176.3
82.5°	119.2	120.1	117.2	114.3	111.4
85°	62.0	63.9	62.0	60.1	60.1
87.5°	23.3	24.2	23.3	22.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)