

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: P412814

Luminaire Tested: **22PD-85-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412814
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-85-PP3-L840
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

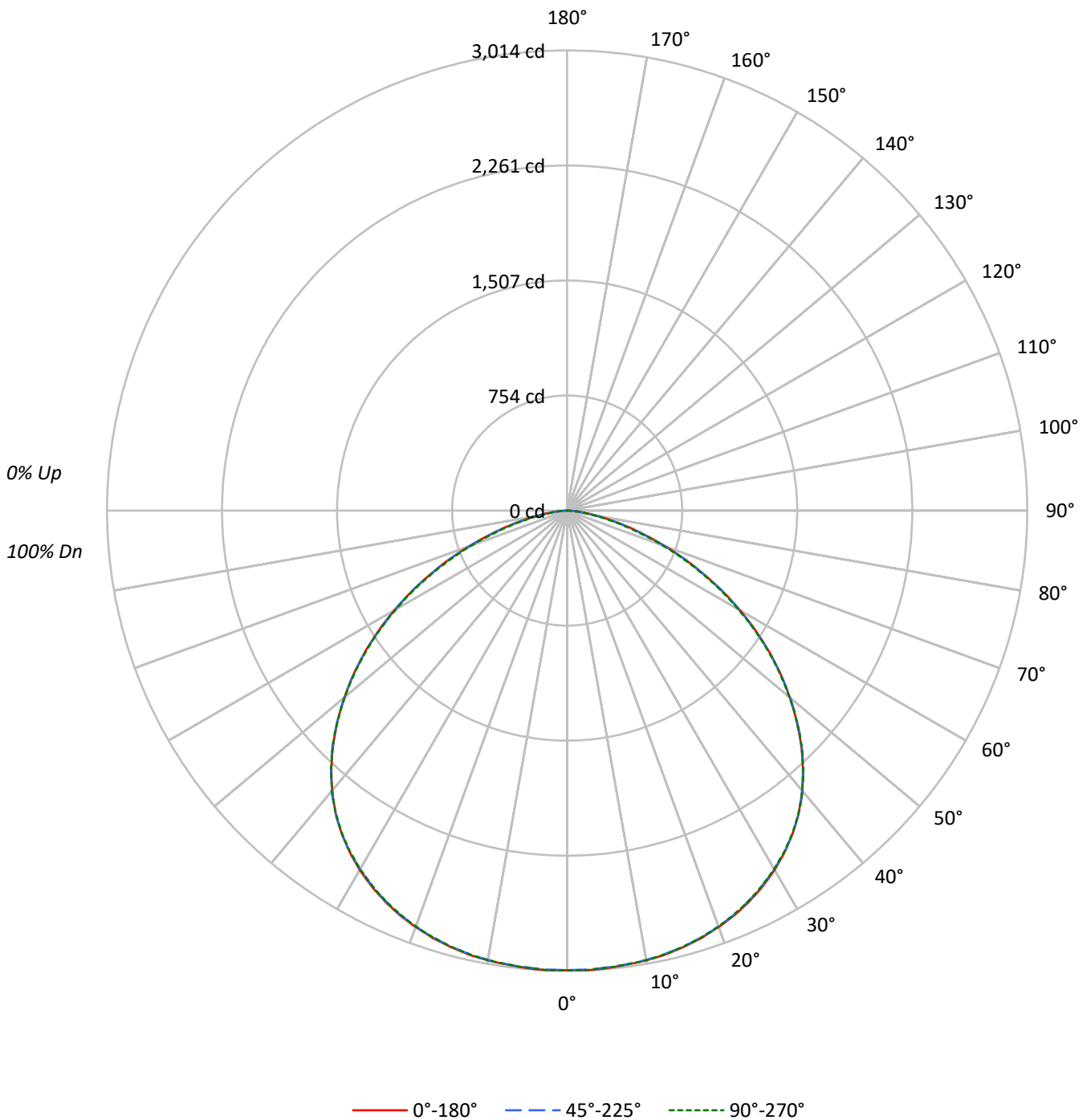
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8636.0 lumens
Efficiency: N/A
Efficacy: 111.7 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): 77.3
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°	8100	8100	8100
5°	8125	8115	8120
10°	8175	8164	8170
15°	8240	8232	8232
20°	8312	8303	8300
25°	8385	8370	8370
30°	8444	8428	8425
35°	8469	8469	8459
40°	8413	8431	8413
45°	8246	8269	8257
50°	7969	7981	7960
55°	7587	7568	7553
60°	7042	7026	6972
65°	6290	6284	6214
70°	5377	5345	5227
75°	4285	4159	4033
80°	3053	2991	2834
85°	1985	1985	1924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.3	3.3
10°-20°	835.0	9.7
20°-30°	1300.1	15.1
30°-40°	1609.2	18.6
40°-50°	1668.6	19.3
50°-60°	1438.2	16.7
60°-70°	977.8	11.3
70°-80°	437.5	5.1
80°-90°	83.3	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°	2421.4	28.0
0°-40°	4030.5	46.7
0°-60°	7137.3	82.6
0°-90°	8636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3010	3010	3010	3010	3010	
5°	3008	3002	3004	3003	3006	287
15°	2958	2953	2955	2953	2955	836
25°	2824	2820	2819	2818	2819	1302
35°	2578	2575	2578	2574	2575	1610
45°	2167	2165	2173	2168	2170	1668
55°	1617	1611	1613	1610	1610	1442
65°	988	996	987	984	976	981
75°	412	413	400	398	388	443
85°	64	66	64	62	62	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3010.0	3010.0	3010.0	3010.0	3010.0
2.5°	3014.1	3008.0	3008.0	3009.0	3012.0
5°	3008.0	3002.0	3004.0	3003.0	3006.0
7.5°	3000.0	2995.0	2998.0	2996.0	2998.0
10°	2991.9	2986.9	2987.9	2986.9	2989.9
12.5°	2977.9	2971.8	2973.9	2973.9	2974.9
15°	2957.8	2952.7	2954.8	2952.7	2954.8
17.5°	2933.6	2927.6	2928.6	2927.6	2929.6
20°	2902.5	2898.5	2899.5	2897.5	2898.5
22.5°	2867.3	2862.3	2863.3	2861.3	2861.3
25°	2824.1	2820.1	2819.1	2818.1	2819.1
27.5°	2773.9	2768.8	2768.8	2767.8	2767.8
30°	2717.6	2712.5	2712.5	2711.5	2711.5
32.5°	2651.2	2649.2	2650.2	2648.2	2647.2
35°	2577.9	2574.9	2577.9	2573.9	2574.9
37.5°	2492.4	2488.4	2494.5	2490.4	2491.4
40°	2395.0	2392.9	2400.0	2397.0	2395.0
42.5°	2286.4	2286.4	2289.4	2290.4	2288.4
45°	2166.8	2164.8	2172.9	2167.8	2169.8
47.5°	2038.2	2035.2	2041.2	2040.2	2039.2
50°	1903.5	1901.5	1906.5	1901.5	1901.5
52.5°	1763.8	1762.8	1763.8	1758.8	1757.8
55°	1617.1	1611.0	1613.1	1610.0	1610.0
57.5°	1464.3	1457.3	1458.3	1457.3	1458.3
60°	1308.5	1306.5	1305.5	1300.5	1295.5
62.5°	1148.7	1150.7	1149.7	1142.7	1137.7
65°	987.9	996.0	986.9	983.9	975.9
67.5°	836.2	839.2	833.2	826.1	817.1
70°	683.4	689.4	679.4	672.4	664.3
72.5°	537.7	541.7	532.7	528.6	518.6
75°	412.1	413.1	400.0	398.0	387.9
77.5°	293.5	297.5	287.4	287.4	277.4
80°	197.0	204.0	193.0	189.9	182.9
82.5°	123.6	124.6	121.6	118.6	115.6
85°	64.3	66.3	64.3	62.3	62.3
87.5°	24.1	25.1	24.1	23.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)