

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: P412813

Luminaire Tested: **22PD-85-PP3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412813
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-L835
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

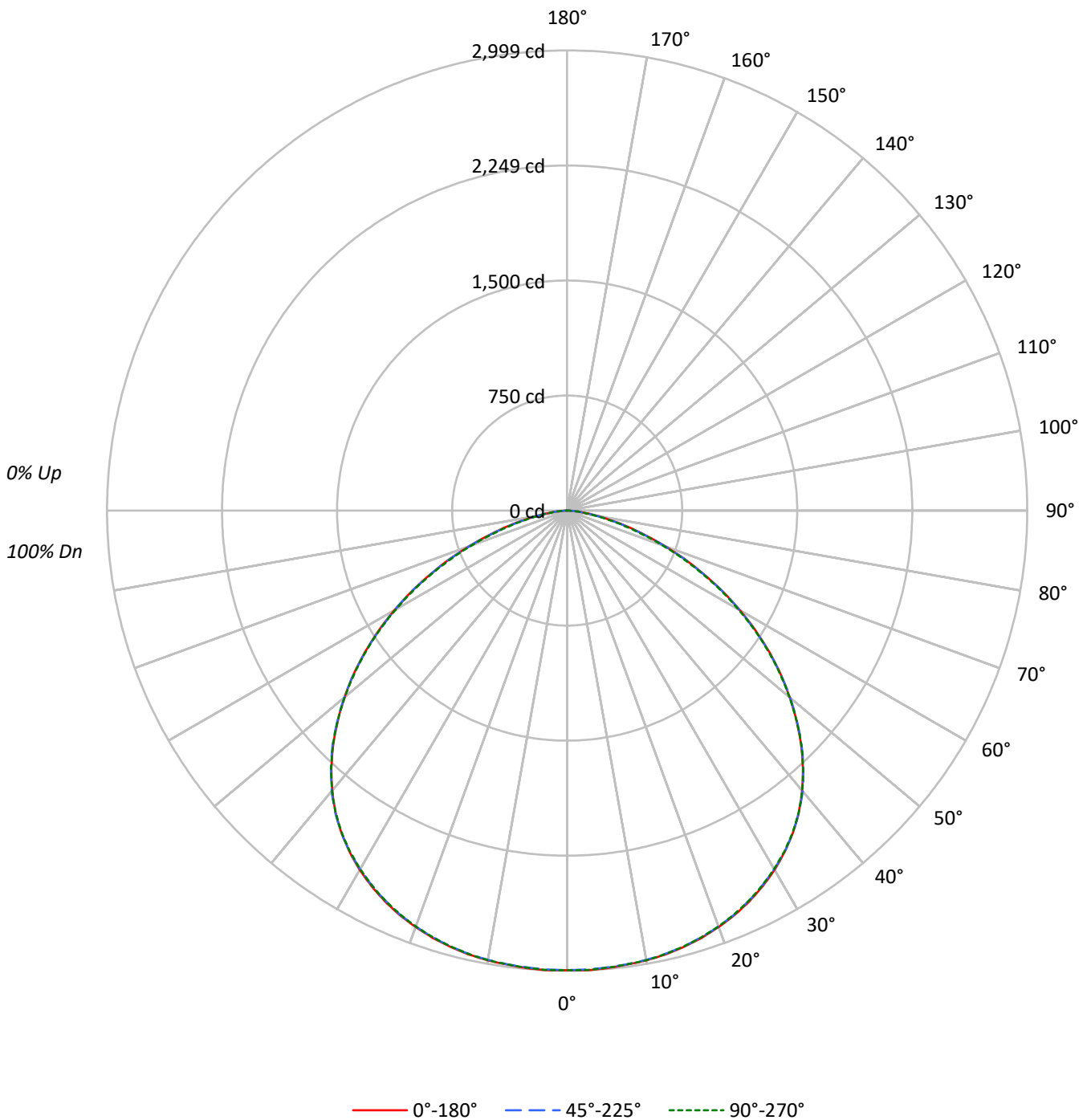
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8592.9 lumens
Efficiency: N/A
Efficacy: 111.2 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): 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°	8059	8059	8059
5°	8085	8074	8079
10°	8135	8124	8129
15°	8199	8191	8191
20°	8270	8262	8259
25°	8343	8329	8329
30°	8402	8387	8383
35°	8426	8426	8416
40°	8371	8389	8371
45°	8205	8228	8216
50°	7929	7942	7921
55°	7549	7530	7516
60°	7007	6991	6937
65°	6259	6253	6183
70°	5350	5319	5201
75°	4263	4138	4013
80°	3037	2975	2820
85°	1976	1976	1914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	3.3
10°-20°	830.8	9.7
20°-30°	1293.7	15.1
30°-40°	1601.1	18.6
40°-50°	1660.3	19.3
50°-60°	1431.0	16.7
60°-70°	972.9	11.3
70°-80°	435.4	5.1
80°-90°	82.9	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°	2409.3	28.0
0°-40°	4010.4	46.7
0°-60°	7101.7	82.6
0°-90°	8592.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8592.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2995	2995	2995	2995	2995	
5°	2993	2987	2989	2988	2991	285
15°	2943	2938	2940	2938	2940	832
25°	2810	2806	2805	2804	2805	1296
35°	2565	2562	2565	2561	2562	1602
45°	2156	2154	2162	2157	2159	1659
55°	1609	1603	1605	1602	1602	1435
65°	983	991	982	979	971	976
75°	410	411	398	396	386	441
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°	2995	2995	2995	2995	2995
2.5°	2999	2993	2993	2994	2997
5°	2993	2987	2989	2988	2991
7.5°	2985	2980	2983	2981	2983
10°	2977	2972	2973	2972	2975
12.5°	2963	2957	2959	2959	2960
15°	2943	2938	2940	2938	2940
17.5°	2919	2913	2914	2913	2915
20°	2888	2884	2885	2883	2884
22.5°	2853	2848	2849	2847	2847
25°	2810	2806	2805	2804	2805
27.5°	2760	2755	2755	2754	2754
30°	2704	2699	2699	2698	2698
32.5°	2638	2636	2637	2635	2634
35°	2565	2562	2565	2561	2562
37.5°	2480	2476	2482	2478	2479
40°	2383	2381	2388	2385	2383
42.5°	2275	2275	2278	2279	2277
45°	2156	2154	2162	2157	2159
47.5°	2028	2025	2031	2030	2029
50°	1894	1892	1897	1892	1892
52.5°	1755	1754	1755	1750	1749
55°	1609	1603	1605	1602	1602
57.5°	1457	1450	1451	1450	1451
60°	1302	1300	1299	1294	1289
62.5°	1143	1145	1144	1137	1132
65°	983	991	982	979	971
67.5°	832	835	829	822	813
70°	680	686	676	669	661
72.5°	535	539	530	526	516
75°	410	411	398	396	386
77.5°	292	296	286	286	276
80°	196	203	192	189	182
82.5°	123	124	121	118	115
85°	64	66	64	62	62
87.5°	24	25	24	23	24
90°	0	0	0	0	0

(END OF REPORT)