

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: P412477

Luminaire Tested: **22PD-85-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-85-PB1-L940
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

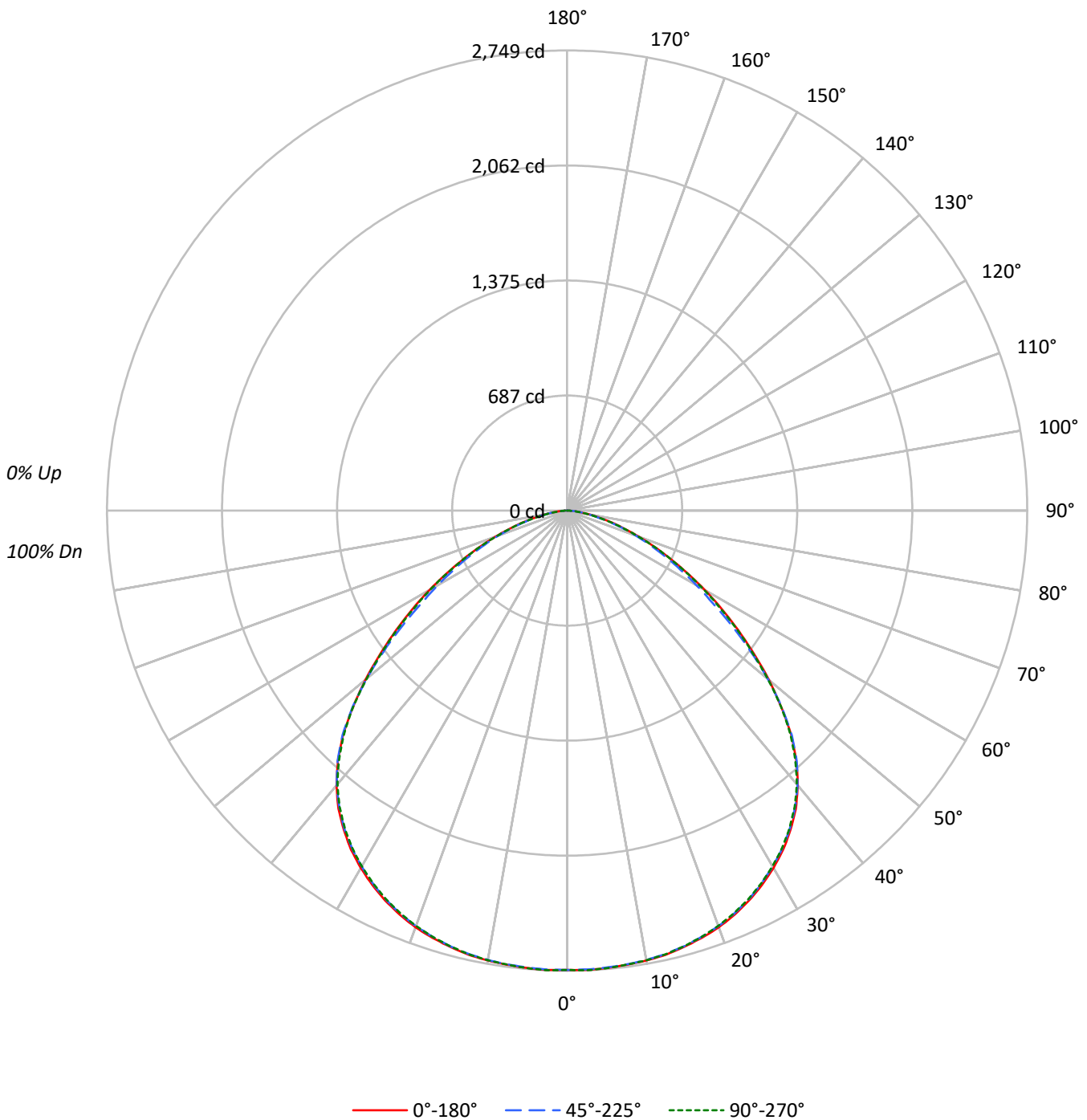
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7205.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7385	7385	7385
5°	7409	7402	7411
10°	7457	7448	7453
15°	7518	7506	7506
20°	7587	7565	7560
25°	7635	7612	7604
30°	7660	7628	7623
35°	7644	7622	7608
40°	7530	7521	7497
45°	7198	7221	7166
50°	6590	6555	6548
55°	5856	5650	5817
60°	5106	4795	5074
65°	4328	4096	4306
70°	3579	3432	3545
75°	2894	2708	2779
80°	2091	2025	2011
85°	1362	1362	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.1	3.6
10°-20°	761.6	10.6
20°-30°	1181.8	16.4
30°-40°	1449.2	20.1
40°-50°	1448.6	20.1
50°-60°	1097.3	15.2
60°-70°	658.1	9.1
70°-80°	289.8	4.0
80°-90°	57.5	0.8
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°	2204.5	30.6
0°-40°	3653.6	50.7
0°-60°	6199.6	86.0
0°-90°	7205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2744	2744	2744	2744	2744	
5°	2743	2739	2740	2739	2744	261
15°	2699	2696	2694	2693	2694	763
25°	2571	2566	2564	2559	2561	1185
35°	2327	2326	2320	2318	2316	1453
45°	1892	1894	1898	1892	1883	1448
55°	1248	1221	1204	1220	1240	1119
65°	680	656	643	654	676	680
75°	278	272	260	265	267	297
85°	44	46	44	42	42	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2744.4	2744.4	2744.4	2744.4	2744.4
2.5°	2746.9	2742.7	2743.5	2743.5	2748.6
5°	2742.7	2739.3	2740.1	2739.3	2743.5
7.5°	2736.7	2733.3	2734.2	2733.3	2735.9
10°	2729.1	2725.7	2725.7	2724.0	2727.4
12.5°	2718.9	2714.7	2713.0	2712.1	2714.7
15°	2698.6	2696.0	2694.3	2692.6	2694.3
17.5°	2676.5	2672.2	2670.5	2667.2	2670.5
20°	2649.3	2643.4	2641.7	2639.2	2640.0
22.5°	2613.7	2608.6	2606.1	2601.8	2603.5
25°	2571.3	2566.2	2563.6	2559.4	2561.1
27.5°	2522.0	2518.6	2512.7	2509.3	2510.2
30°	2465.2	2461.8	2455.0	2453.3	2453.3
32.5°	2402.4	2398.1	2392.2	2390.5	2389.7
35°	2326.9	2326.0	2320.1	2318.4	2315.8
37.5°	2244.6	2242.9	2236.1	2234.4	2231.8
40°	2143.6	2141.9	2141.0	2137.6	2134.2
42.5°	2026.5	2029.0	2030.7	2023.9	2017.1
45°	1891.5	1894.1	1897.5	1892.4	1883.0
47.5°	1733.7	1743.9	1738.8	1742.2	1732.8
50°	1574.2	1574.2	1565.7	1569.1	1564.0
52.5°	1407.0	1393.4	1383.2	1390.0	1396.8
55°	1248.3	1221.1	1204.2	1220.3	1239.8
57.5°	1096.4	1064.1	1032.7	1058.2	1082.0
60°	948.7	911.4	891.0	909.7	942.8
62.5°	808.7	781.6	761.2	775.6	803.6
65°	679.7	656.0	643.2	654.3	676.3
67.5°	561.8	545.7	532.9	542.3	559.2
70°	454.9	450.6	436.2	440.4	450.6
72.5°	357.3	356.4	343.7	347.1	353.0
75°	278.3	272.4	260.5	264.8	267.3
77.5°	196.9	199.4	188.4	190.9	190.9
80°	134.9	139.2	130.7	129.0	129.8
82.5°	85.7	85.7	84.9	84.0	81.5
85°	44.1	45.8	44.1	42.4	42.4
87.5°	17.0	17.0	17.0	16.1	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)