

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: P412593

Luminaire Tested: **24PD-85-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-85-PB1-L935
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

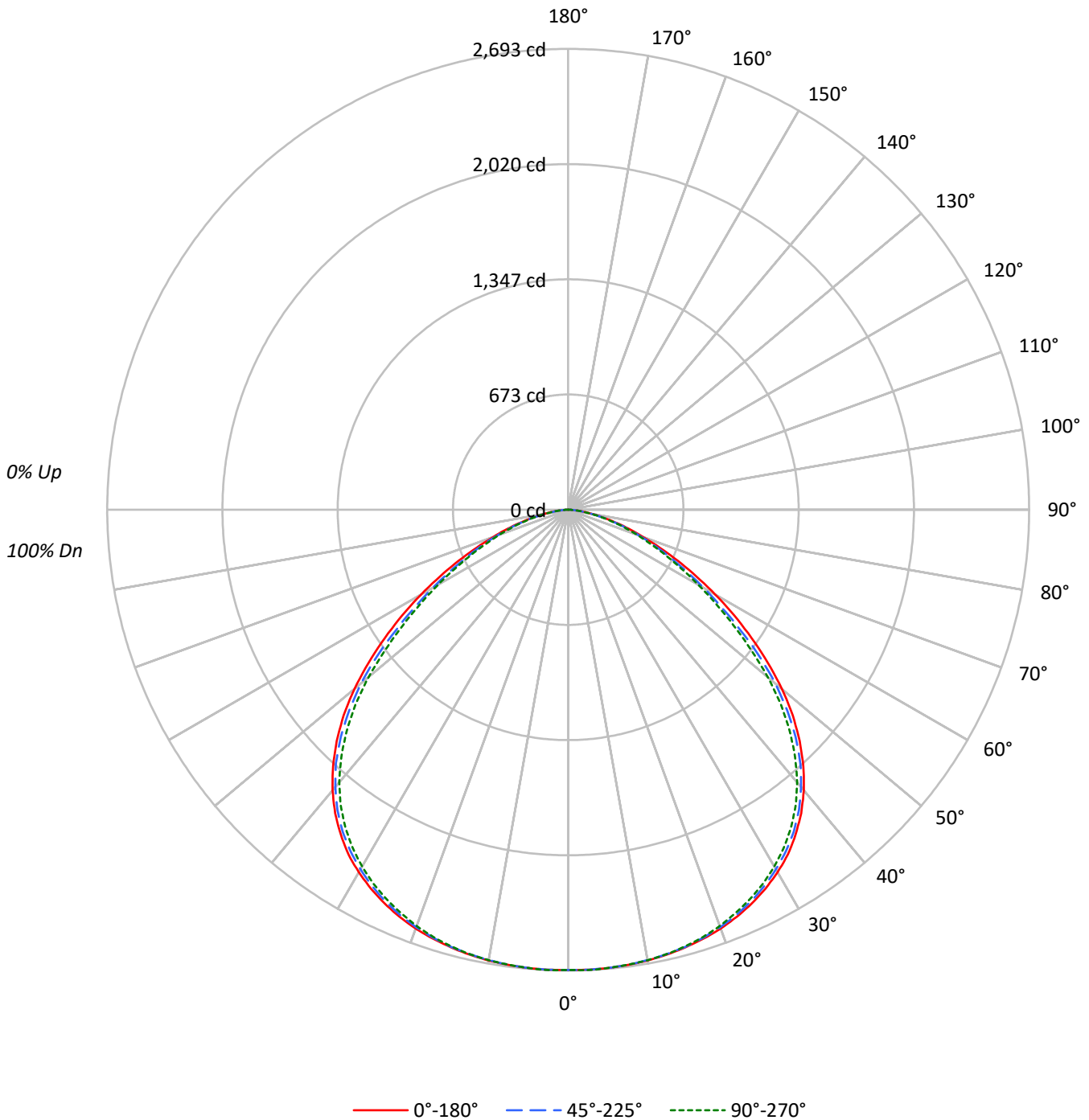
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7157.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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

TEST NUMBER: P412593
CATALOG NUMBER: 24PD-85-PB1-L935

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	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3619	3619	3619
5°	3631	3631	3631
10°	3655	3651	3652
15°	3688	3683	3680
20°	3730	3717	3707
25°	3769	3750	3729
30°	3801	3770	3741
35°	3806	3773	3726
40°	3761	3717	3655
45°	3640	3573	3481
50°	3413	3307	3186
55°	3067	2885	2766
60°	2670	2457	2363
65°	2247	2079	1988
70°	1831	1739	1669
75°	1468	1416	1356
80°	1127	1038	1011
85°	704	682	682



TEST NUMBER: P412593

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	3.6
10°-20°	747.5	10.4
20°-30°	1164.4	16.3
30°-40°	1432.5	20.0
40°-50°	1438.9	20.1
50°-60°	1109.0	15.5
60°-70°	658.4	9.2
70°-80°	293.1	4.1
80°-90°	57.3	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°	2168.0	30.3
0°-40°	3600.5	50.3
0°-60°	6148.3	85.9
0°-90°	7157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2690	2690	2690	2690	2690	
5°	2688	2689	2688	2685	2688	256
15°	2648	2648	2644	2640	2642	749
25°	2539	2538	2526	2514	2512	1171
35°	2317	2313	2297	2278	2268	1447
45°	1913	1908	1878	1846	1829	1468
55°	1307	1282	1230	1193	1179	1169
65°	706	675	653	628	624	705
75°	282	277	272	263	261	306
85°	46	44	44	42	44	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2689.7	2689.7	2689.7	2689.7	2689.7
2.5°	2691.1	2690.4	2690.4	2687.6	2693.3
5°	2688.3	2689.0	2688.3	2685.4	2688.3
7.5°	2682.6	2683.3	2681.9	2679.0	2681.9
10°	2675.4	2675.4	2672.6	2671.2	2673.3
12.5°	2663.3	2663.3	2660.5	2658.3	2660.5
15°	2647.6	2647.6	2644.1	2639.8	2641.9
17.5°	2628.4	2628.4	2622.7	2617.0	2618.4
20°	2604.9	2604.1	2596.3	2588.5	2589.2
22.5°	2574.9	2574.2	2564.2	2555.0	2552.1
25°	2538.6	2537.8	2525.7	2514.3	2511.5
27.5°	2496.5	2493.7	2480.1	2467.3	2464.4
30°	2446.6	2444.5	2426.6	2413.8	2408.1
32.5°	2388.9	2383.2	2366.8	2351.1	2343.2
35°	2316.9	2313.3	2296.9	2277.6	2268.4
37.5°	2235.6	2232.0	2214.2	2192.8	2182.1
40°	2141.5	2138.6	2116.5	2094.4	2080.9
42.5°	2033.1	2031.0	2007.5	1976.8	1962.6
45°	1912.7	1907.7	1877.7	1846.4	1829.2
47.5°	1778.6	1770.1	1733.7	1703.8	1685.2
50°	1630.4	1618.9	1579.7	1541.2	1522.0
52.5°	1470.0	1450.0	1409.4	1365.2	1346.6
55°	1307.4	1282.5	1229.7	1192.6	1179.1
57.5°	1148.4	1112.1	1062.2	1035.8	1022.3
60°	992.3	952.4	913.2	887.5	878.3
62.5°	843.3	809.8	776.3	750.7	745.0
65°	705.8	675.1	653.0	628.0	624.5
67.5°	577.4	563.2	543.2	521.8	519.0
70°	465.5	459.8	442.0	429.2	424.2
72.5°	371.4	365.7	352.9	343.6	342.2
75°	282.3	276.6	272.3	263.1	260.9
77.5°	201.0	201.7	198.2	193.2	194.6
80°	145.4	136.9	134.0	131.2	130.5
82.5°	89.1	84.1	82.0	81.3	82.7
85°	45.6	43.5	44.2	42.1	44.2
87.5°	15.7	15.7	16.4	15.7	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)