

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: P412575

Luminaire Tested: **24PD-75-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412575
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-75-PB1-L935
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

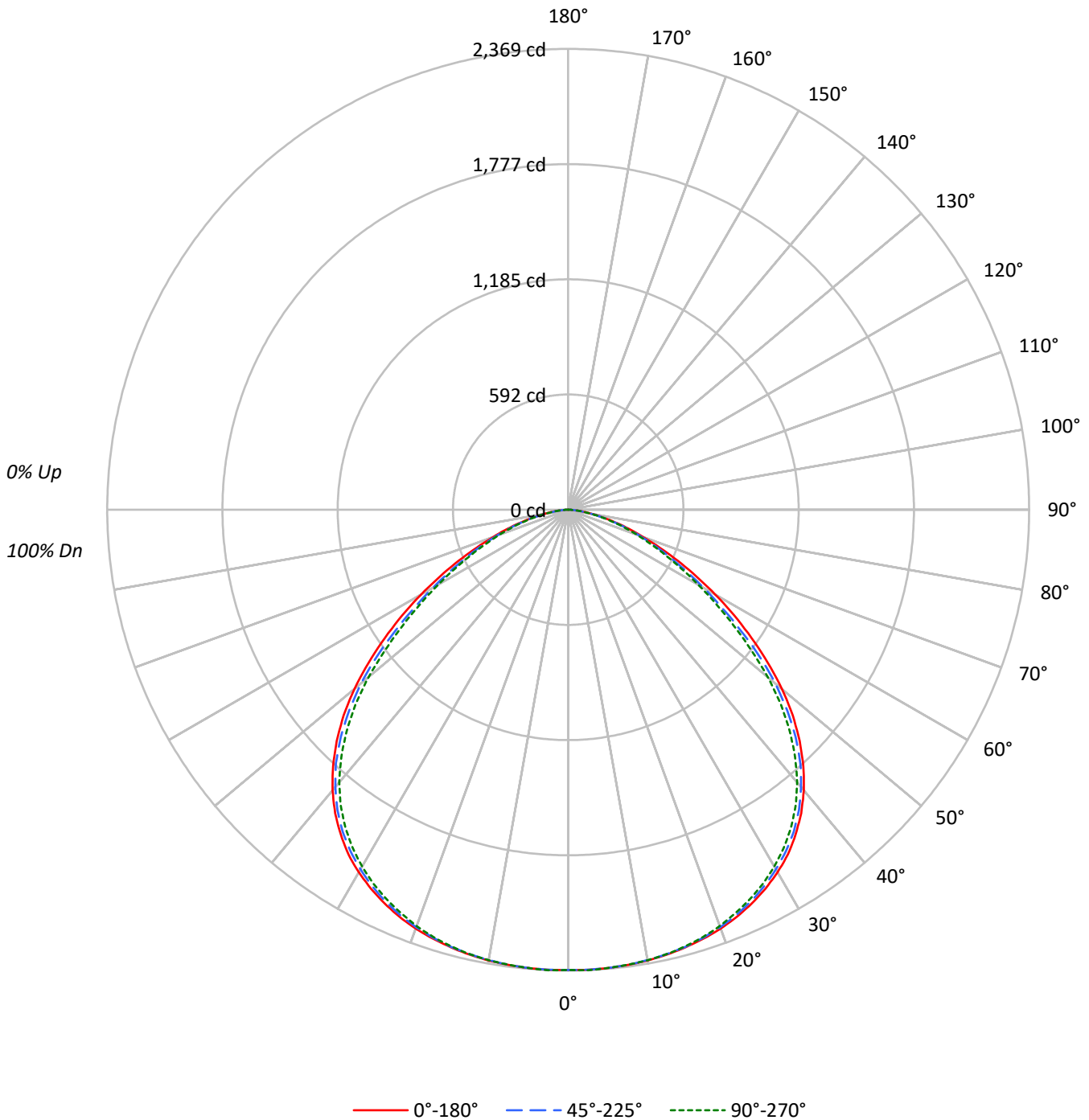
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6296.0 lumens
Efficiency: N/A
Efficacy: 111.8 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): 56.3
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	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°	3184	3184	3184
5°	3194	3194	3194
10°	3216	3212	3213
15°	3244	3240	3237
20°	3281	3270	3261
25°	3315	3299	3280
30°	3344	3317	3291
35°	3348	3319	3278
40°	3309	3270	3215
45°	3202	3143	3062
50°	3002	2909	2803
55°	2698	2538	2433
60°	2349	2162	2079
65°	1976	1829	1749
70°	1611	1530	1468
75°	1291	1246	1193
80°	991	914	890
85°	619	601	601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	3.6
10°-20°	657.5	10.4
20°-30°	1024.4	16.3
30°-40°	1260.2	20.0
40°-50°	1265.8	20.1
50°-60°	975.6	15.5
60°-70°	579.2	9.2
70°-80°	257.8	4.1
80°-90°	50.4	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°	1907.2	30.3
0°-40°	3167.3	50.3
0°-60°	5408.6	85.9
0°-90°	6296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2366	2366	2366	2366	2366	
5°	2365	2366	2365	2362	2365	225
15°	2329	2329	2326	2322	2324	659
25°	2233	2232	2222	2212	2209	1030
35°	2038	2035	2021	2004	1996	1273
45°	1683	1678	1652	1624	1609	1291
55°	1150	1128	1082	1049	1037	1028
65°	621	594	574	552	549	620
75°	248	243	240	231	230	269
85°	40	38	39	37	39	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2366.1	2366.1	2366.1	2366.1	2366.1
2.5°	2367.4	2366.7	2366.7	2364.2	2369.3
5°	2364.9	2365.5	2364.9	2362.4	2364.9
7.5°	2359.8	2360.5	2359.2	2356.7	2359.2
10°	2353.6	2353.6	2351.1	2349.8	2351.7
12.5°	2342.9	2342.9	2340.4	2338.5	2340.4
15°	2329.1	2329.1	2326.0	2322.2	2324.1
17.5°	2312.2	2312.2	2307.2	2302.2	2303.4
20°	2291.5	2290.9	2284.0	2277.1	2277.7
22.5°	2265.2	2264.5	2255.7	2247.6	2245.1
25°	2233.2	2232.5	2221.9	2211.8	2209.3
27.5°	2196.2	2193.7	2181.7	2170.5	2167.9
30°	2152.3	2150.4	2134.7	2123.4	2118.4
32.5°	2101.5	2096.5	2082.0	2068.2	2061.3
35°	2038.1	2035.0	2020.6	2003.6	1995.5
37.5°	1966.6	1963.5	1947.8	1929.0	1919.6
40°	1883.9	1881.4	1861.9	1842.5	1830.6
42.5°	1788.5	1786.7	1766.0	1739.0	1726.5
45°	1682.6	1678.2	1651.8	1624.2	1609.2
47.5°	1564.7	1557.1	1525.2	1498.8	1482.5
50°	1434.2	1424.2	1389.7	1355.8	1338.9
52.5°	1293.1	1275.6	1239.8	1200.9	1184.6
55°	1150.1	1128.2	1081.8	1049.2	1037.3
57.5°	1010.3	978.3	934.4	911.2	899.3
60°	872.9	837.8	803.3	780.8	772.6
62.5°	741.9	712.4	682.9	660.4	655.3
65°	620.8	593.9	574.4	552.5	549.4
67.5°	508.0	495.4	477.9	459.1	456.5
70°	409.5	404.5	388.8	377.5	373.1
72.5°	326.7	321.7	310.4	302.3	301.0
75°	248.3	243.3	239.6	231.4	229.5
77.5°	176.8	177.5	174.3	169.9	171.2
80°	127.9	120.4	117.9	115.4	114.8
82.5°	78.4	74.0	72.1	71.5	72.7
85°	40.1	38.3	38.9	37.0	38.9
87.5°	13.8	13.8	14.4	13.8	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)