

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: P412584

Luminaire Tested: **24PD-80-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412584
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-80-PB1-L935
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

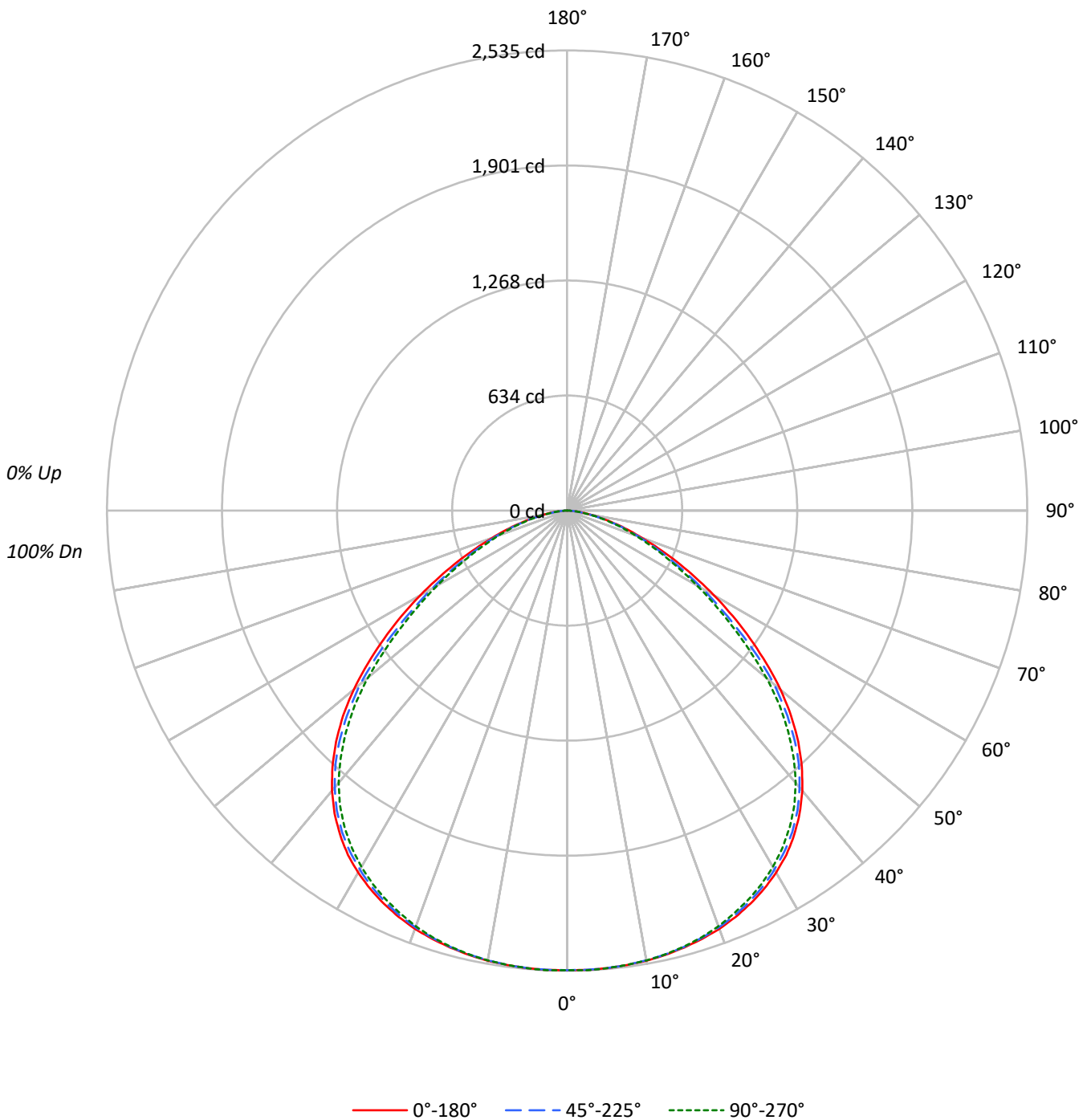
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6736.0 lumens
Efficiency: N/A
Efficacy: 111.7 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): 60.3
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°	3406	3406	3406
5°	3417	3417	3417
10°	3440	3437	3437
15°	3471	3466	3464
20°	3510	3499	3489
25°	3547	3529	3509
30°	3578	3548	3521
35°	3582	3551	3507
40°	3540	3499	3440
45°	3425	3363	3276
50°	3212	3112	2999
55°	2886	2715	2603
60°	2513	2313	2224
65°	2115	1957	1871
70°	1723	1637	1570
75°	1381	1332	1277
80°	1061	977	951
85°	662	642	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.0	3.6
10°-20°	703.5	10.4
20°-30°	1096.0	16.3
30°-40°	1348.2	20.0
40°-50°	1354.2	20.1
50°-60°	1043.7	15.5
60°-70°	619.6	9.2
70°-80°	275.9	4.1
80°-90°	53.9	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°	2040.4	30.3
0°-40°	3388.7	50.3
0°-60°	5786.6	85.9
0°-90°	6736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2532	2532	2532	2532	2532	
5°	2530	2531	2530	2527	2530	241
15°	2492	2492	2488	2484	2486	705
25°	2389	2389	2377	2366	2364	1102
35°	2181	2177	2162	2144	2135	1362
45°	1800	1795	1767	1738	1722	1382
55°	1230	1207	1157	1122	1110	1100
65°	664	635	615	591	588	664
75°	266	260	256	248	246	288
85°	43	41	42	40	42	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2531.5	2531.5	2531.5	2531.5	2531.5
2.5°	2532.8	2532.1	2532.1	2529.5	2534.8
5°	2530.1	2530.8	2530.1	2527.4	2530.1
7.5°	2524.8	2525.4	2524.1	2521.4	2524.1
10°	2518.1	2518.1	2515.4	2514.0	2516.0
12.5°	2506.6	2506.6	2504.0	2502.0	2504.0
15°	2491.9	2491.9	2488.5	2484.5	2486.5
17.5°	2473.8	2473.8	2468.4	2463.0	2464.4
20°	2451.6	2451.0	2443.6	2436.2	2436.9
22.5°	2423.5	2422.8	2413.4	2404.7	2402.0
25°	2389.2	2388.6	2377.2	2366.4	2363.7
27.5°	2349.6	2347.0	2334.2	2322.1	2319.5
30°	2302.7	2300.7	2283.9	2271.8	2266.5
32.5°	2248.3	2243.0	2227.5	2212.8	2205.4
35°	2180.6	2177.2	2161.8	2143.7	2134.9
37.5°	2104.1	2100.7	2084.0	2063.8	2053.8
40°	2015.5	2012.8	1992.0	1971.2	1958.5
42.5°	1913.5	1911.5	1889.4	1860.5	1847.1
45°	1800.1	1795.4	1767.3	1737.7	1721.6
47.5°	1674.0	1666.0	1631.7	1603.6	1586.1
50°	1534.5	1523.7	1486.8	1450.6	1432.5
52.5°	1383.5	1364.7	1326.5	1284.9	1267.4
55°	1230.5	1207.0	1157.4	1122.5	1109.7
57.5°	1080.9	1046.7	999.7	974.9	962.1
60°	934.0	896.4	859.5	835.3	826.6
62.5°	793.7	762.2	730.7	706.5	701.1
65°	664.2	635.4	614.6	591.1	587.7
67.5°	543.5	530.0	511.3	491.1	488.4
70°	438.1	432.8	416.0	403.9	399.2
72.5°	349.6	344.2	332.1	323.4	322.1
75°	265.7	260.3	256.3	247.6	245.6
77.5°	189.2	189.9	186.5	181.8	183.2
80°	136.9	128.8	126.1	123.5	122.8
82.5°	83.9	79.2	77.2	76.5	77.8
85°	42.9	40.9	41.6	39.6	41.6
87.5°	14.8	14.8	15.4	14.8	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)