

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: P412586

Luminaire Tested: **24PD-80-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412586
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-L950
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

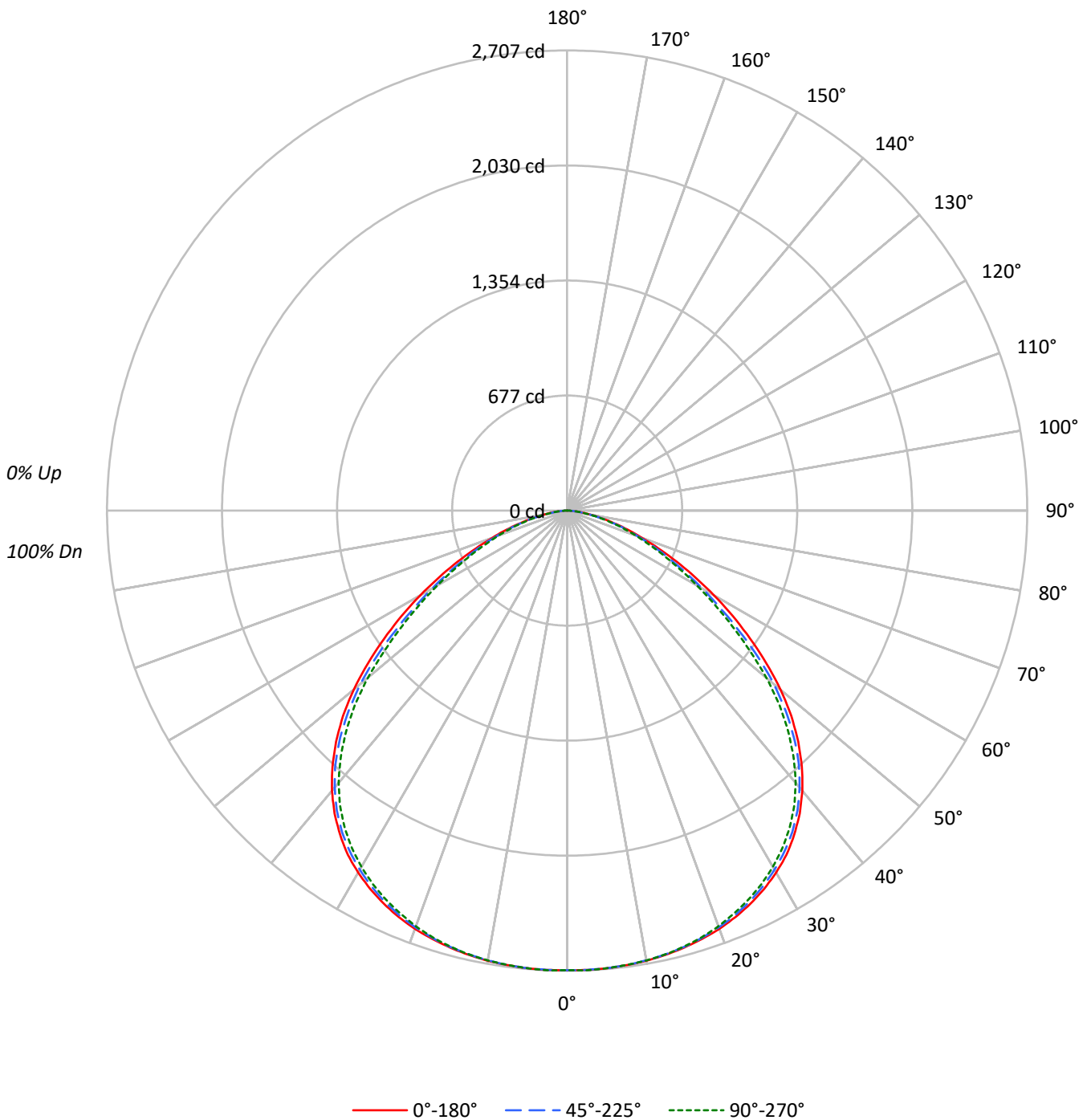
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7194.0 lumens
Efficiency: N/A
Efficacy: 119.3 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°	3638	3638	3638
5°	3650	3650	3650
10°	3674	3670	3671
15°	3707	3702	3699
20°	3749	3737	3727
25°	3788	3769	3748
30°	3821	3790	3761
35°	3825	3792	3745
40°	3781	3737	3674
45°	3658	3591	3499
50°	3430	3324	3202
55°	3083	2900	2780
60°	2684	2470	2376
65°	2259	2090	1998
70°	1841	1748	1677
75°	1475	1423	1364
80°	1133	1044	1016
85°	709	685	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.4	3.6
10°-20°	751.3	10.4
20°-30°	1170.5	16.3
30°-40°	1439.9	20.0
40°-50°	1446.3	20.1
50°-60°	1114.7	15.5
60°-70°	661.8	9.2
70°-80°	294.6	4.1
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°	2179.2	30.3
0°-40°	3619.1	50.3
0°-60°	6180.1	85.9
0°-90°	7194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2704	2704	2704	2704	2704	
5°	2702	2703	2702	2699	2702	258
15°	2661	2661	2658	2653	2656	753
25°	2552	2551	2539	2527	2524	1177
35°	2329	2325	2309	2289	2280	1454
45°	1922	1918	1887	1856	1839	1476
55°	1314	1289	1236	1199	1185	1175
65°	709	679	656	631	628	709
75°	284	278	274	264	262	307
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°	2703.6	2703.6	2703.6	2703.6	2703.6
2.5°	2705.0	2704.3	2704.3	2701.4	2707.2
5°	2702.2	2702.9	2702.2	2699.3	2702.2
7.5°	2696.4	2697.1	2695.7	2692.8	2695.7
10°	2689.3	2689.3	2686.4	2685.0	2687.1
12.5°	2677.1	2677.1	2674.2	2672.1	2674.2
15°	2661.3	2661.3	2657.7	2653.4	2655.6
17.5°	2642.0	2642.0	2636.2	2630.5	2631.9
20°	2618.3	2617.6	2609.7	2601.8	2602.6
22.5°	2588.2	2587.5	2577.5	2568.2	2565.3
25°	2551.7	2551.0	2538.8	2527.3	2524.5
27.5°	2509.4	2506.5	2492.9	2480.0	2477.2
30°	2459.2	2457.1	2439.2	2426.3	2420.6
32.5°	2401.2	2395.5	2379.0	2363.2	2355.3
35°	2328.8	2325.3	2308.8	2289.4	2280.1
37.5°	2247.1	2243.6	2225.6	2204.2	2193.4
40°	2152.6	2149.7	2127.5	2105.3	2091.7
42.5°	2043.6	2041.5	2017.8	1987.0	1972.7
45°	1922.5	1917.5	1887.4	1855.9	1838.7
47.5°	1787.8	1779.2	1742.7	1712.6	1694.0
50°	1638.8	1627.3	1587.9	1549.2	1529.9
52.5°	1477.6	1457.5	1416.6	1372.2	1353.6
55°	1314.2	1289.1	1236.1	1198.8	1185.2
57.5°	1154.4	1117.8	1067.7	1041.2	1027.6
60°	997.5	957.3	917.9	892.1	882.8
62.5°	847.7	814.0	780.3	754.5	748.8
65°	709.4	678.6	656.4	631.3	627.7
67.5°	580.4	566.1	546.0	524.5	521.7
70°	467.9	462.2	444.3	431.4	426.4
72.5°	373.3	367.6	354.7	345.4	344.0
75°	283.8	278.0	273.7	264.4	262.3
77.5°	202.1	202.8	199.2	194.2	195.6
80°	146.2	137.6	134.7	131.8	131.1
82.5°	89.6	84.6	82.4	81.7	83.1
85°	45.9	43.7	44.4	42.3	44.4
87.5°	15.8	15.8	16.5	15.8	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)