

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: P412554

Luminaire Tested: **24PD-65-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412554
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-65-PB1-L850
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

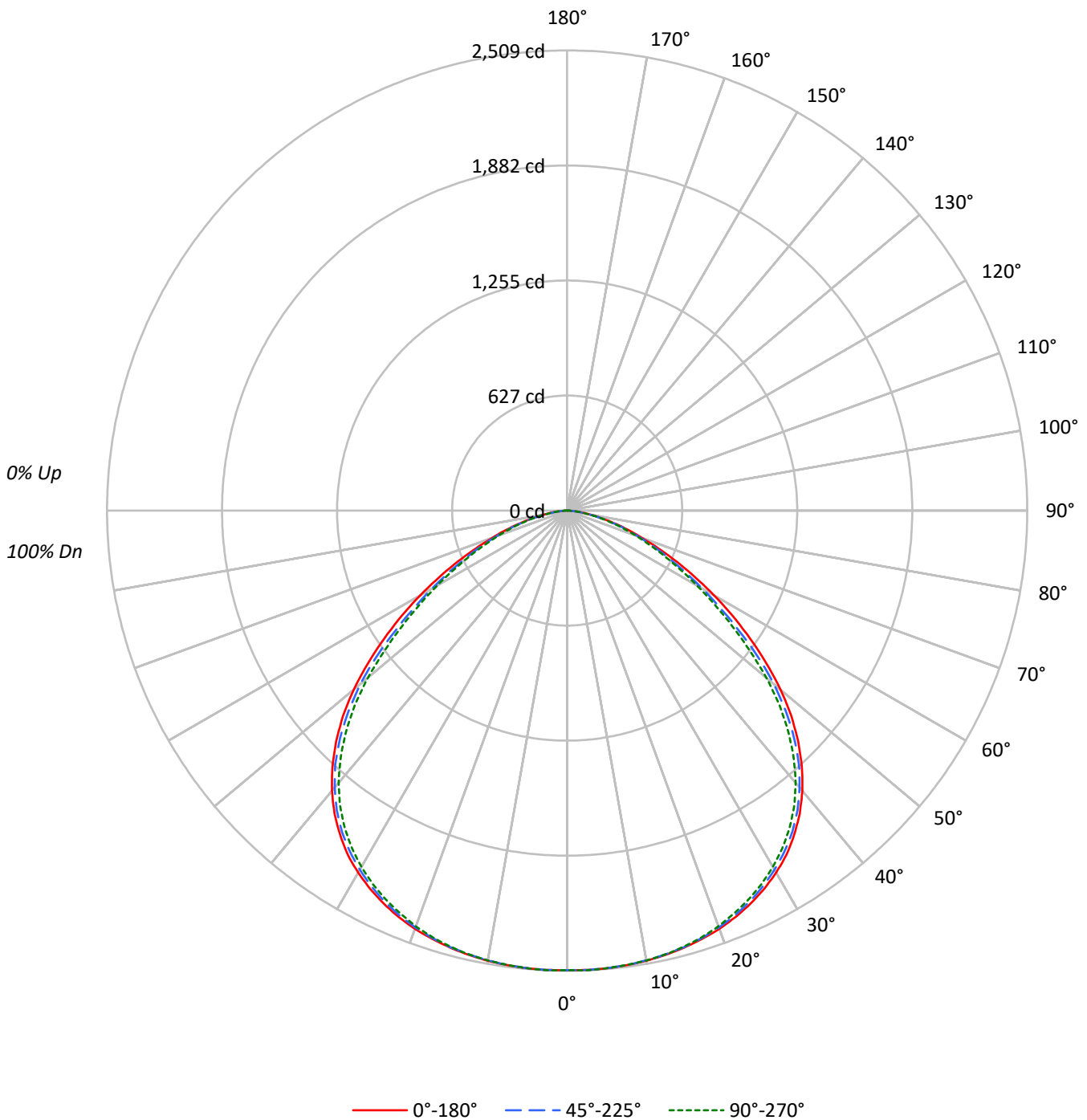
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6668.0 lumens
Efficiency: N/A
Efficacy: 134.2 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): 49.7
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: P412554
CATALOG NUMBER: 24PD-65-PB1-L850

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°	3372	3372	3372
5°	3383	3383	3383
10°	3406	3402	3403
15°	3436	3431	3429
20°	3475	3463	3454
25°	3511	3494	3474
30°	3541	3512	3486
35°	3546	3515	3471
40°	3504	3463	3405
45°	3391	3329	3243
50°	3180	3081	2968
55°	2857	2688	2577
60°	2488	2289	2202
65°	2093	1937	1852
70°	1706	1620	1555
75°	1367	1319	1264
80°	1050	968	941
85°	656	636	636



TEST NUMBER: P412554

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.6	3.6
10°-20°	696.4	10.4
20°-30°	1084.9	16.3
30°-40°	1334.6	20.0
40°-50°	1340.5	20.1
50°-60°	1033.2	15.5
60°-70°	613.4	9.2
70°-80°	273.1	4.1
80°-90°	53.3	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°	2019.8	30.3
0°-40°	3354.4	50.3
0°-60°	5728.2	85.9
0°-90°	6668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2506	2506	2506	2506	2506	
5°	2505	2505	2505	2502	2505	239
15°	2467	2467	2463	2459	2461	698
25°	2365	2364	2353	2342	2340	1091
35°	2159	2155	2140	2122	2113	1348
45°	1782	1777	1749	1720	1704	1368
55°	1218	1195	1146	1111	1098	1089
65°	658	629	608	585	582	657
75°	263	258	254	245	243	285
85°	42	40	41	39	41	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2505.9	2505.9	2505.9	2505.9	2505.9
2.5°	2507.2	2506.6	2506.6	2503.9	2509.2
5°	2504.6	2505.3	2504.6	2501.9	2504.6
7.5°	2499.3	2499.9	2498.6	2496.0	2498.6
10°	2492.6	2492.6	2490.0	2488.7	2490.6
12.5°	2481.3	2481.3	2478.7	2476.7	2478.7
15°	2466.7	2466.7	2463.4	2459.4	2461.4
17.5°	2448.8	2448.8	2443.5	2438.2	2439.5
20°	2426.9	2426.2	2418.9	2411.6	2412.3
22.5°	2399.0	2398.3	2389.0	2380.4	2377.7
25°	2365.1	2364.5	2353.2	2342.5	2339.9
27.5°	2325.9	2323.3	2310.7	2298.7	2296.0
30°	2279.4	2277.4	2260.8	2248.9	2243.6
32.5°	2225.6	2220.3	2205.0	2190.4	2183.1
35°	2158.6	2155.2	2140.0	2122.0	2113.4
37.5°	2082.8	2079.5	2062.9	2043.0	2033.0
40°	1995.2	1992.5	1971.9	1951.3	1938.7
42.5°	1894.2	1892.2	1870.3	1841.7	1828.5
45°	1782.0	1777.3	1749.4	1720.2	1704.3
47.5°	1657.1	1649.1	1615.3	1587.4	1570.1
50°	1519.0	1508.3	1471.8	1435.9	1418.0
52.5°	1369.5	1350.9	1313.1	1271.9	1254.6
55°	1218.1	1194.8	1145.7	1111.2	1098.5
57.5°	1070.0	1036.1	989.6	965.0	952.4
60°	924.5	887.3	850.8	826.9	818.3
62.5°	785.7	754.5	723.3	699.4	694.1
65°	657.5	629.0	608.4	585.1	581.8
67.5°	538.0	524.7	506.1	486.2	483.5
70°	433.7	428.4	411.8	399.8	395.2
72.5°	346.0	340.7	328.8	320.1	318.8
75°	263.0	257.7	253.7	245.1	243.1
77.5°	187.3	188.0	184.6	180.0	181.3
80°	135.5	127.5	124.9	122.2	121.5
82.5°	83.0	78.4	76.4	75.7	77.0
85°	42.5	40.5	41.2	39.2	41.2
87.5°	14.6	14.6	15.3	14.6	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)