

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: P412569

Luminaire Tested: **24PD-75-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412569
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-L830
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

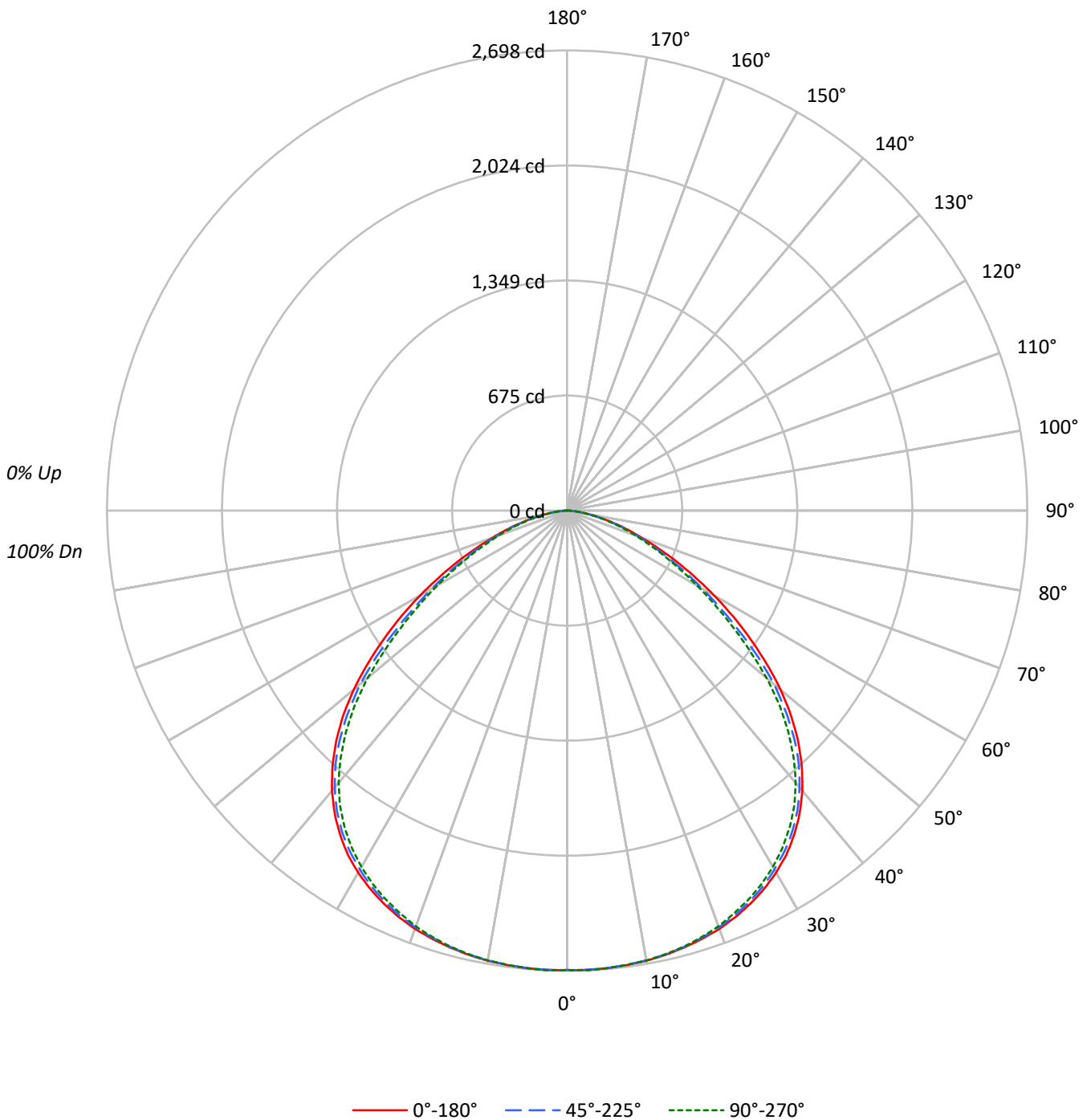
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7169.0 lumens
Efficiency: N/A
Efficacy: 127.3 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): 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°	3625	3625	3625
5°	3637	3637	3637
10°	3661	3658	3659
15°	3694	3689	3686
20°	3736	3724	3713
25°	3775	3756	3735
30°	3807	3776	3748
35°	3812	3779	3732
40°	3768	3724	3661
45°	3646	3579	3487
50°	3418	3312	3191
55°	3072	2890	2771
60°	2675	2461	2367
65°	2251	2082	1991
70°	1834	1742	1672
75°	1470	1418	1359
80°	1129	1040	1013
85°	706	684	684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	3.6
10°-20°	748.7	10.4
20°-30°	1166.4	16.3
30°-40°	1434.9	20.0
40°-50°	1441.3	20.1
50°-60°	1110.8	15.5
60°-70°	659.4	9.2
70°-80°	293.6	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°	2171.6	30.3
0°-40°	3606.5	50.3
0°-60°	6158.6	85.9
0°-90°	7169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2694	2694	2694	2694	2694	
5°	2693	2694	2693	2690	2693	257
15°	2652	2652	2648	2644	2646	750
25°	2543	2542	2530	2518	2516	1173
35°	2321	2317	2301	2282	2272	1449
45°	1916	1911	1881	1850	1832	1471
55°	1310	1285	1232	1195	1181	1171
65°	707	676	654	629	626	706
75°	283	277	273	264	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°	2694.2	2694.2	2694.2	2694.2	2694.2
2.5°	2695.6	2694.9	2694.9	2692.1	2697.8
5°	2692.8	2693.5	2692.8	2689.9	2692.8
7.5°	2687.1	2687.8	2686.3	2683.5	2686.3
10°	2679.9	2679.9	2677.1	2675.6	2677.8
12.5°	2667.8	2667.8	2664.9	2662.8	2664.9
15°	2652.1	2652.1	2648.5	2644.2	2646.4
17.5°	2632.8	2632.8	2627.1	2621.4	2622.8
20°	2609.2	2608.5	2600.7	2592.8	2593.5
22.5°	2579.2	2578.5	2568.5	2559.2	2556.4
25°	2542.8	2542.1	2530.0	2518.5	2515.7
27.5°	2500.7	2497.8	2484.3	2471.4	2468.6
30°	2450.7	2448.6	2430.7	2417.9	2412.1
32.5°	2392.9	2387.1	2370.7	2355.0	2347.2
35°	2320.7	2317.2	2300.7	2281.5	2272.2
37.5°	2239.3	2235.8	2217.9	2196.5	2185.8
40°	2145.1	2142.2	2120.1	2097.9	2084.4
42.5°	2036.5	2034.4	2010.8	1980.1	1965.8
45°	1915.9	1910.9	1880.9	1849.5	1832.3
47.5°	1781.6	1773.0	1736.6	1706.6	1688.1
50°	1633.1	1621.7	1582.4	1543.8	1524.5
52.5°	1472.4	1452.4	1411.7	1367.5	1348.9
55°	1309.6	1284.6	1231.8	1194.6	1181.1
57.5°	1150.4	1114.0	1064.0	1037.5	1024.0
60°	994.0	954.0	914.7	889.0	879.7
62.5°	844.7	811.2	777.6	751.9	746.2
65°	706.9	676.2	654.1	629.1	625.5
67.5°	578.4	564.1	544.1	522.7	519.8
70°	466.3	460.6	442.7	429.9	424.9
72.5°	372.0	366.3	353.5	344.2	342.8
75°	282.8	277.1	272.8	263.5	261.4
77.5°	201.4	202.1	198.5	193.5	194.9
80°	145.7	137.1	134.2	131.4	130.7
82.5°	89.3	84.3	82.1	81.4	82.8
85°	45.7	43.6	44.3	42.1	44.3
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)