

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: P412578

Luminaire Tested: **24PD-80-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412578
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-L830
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

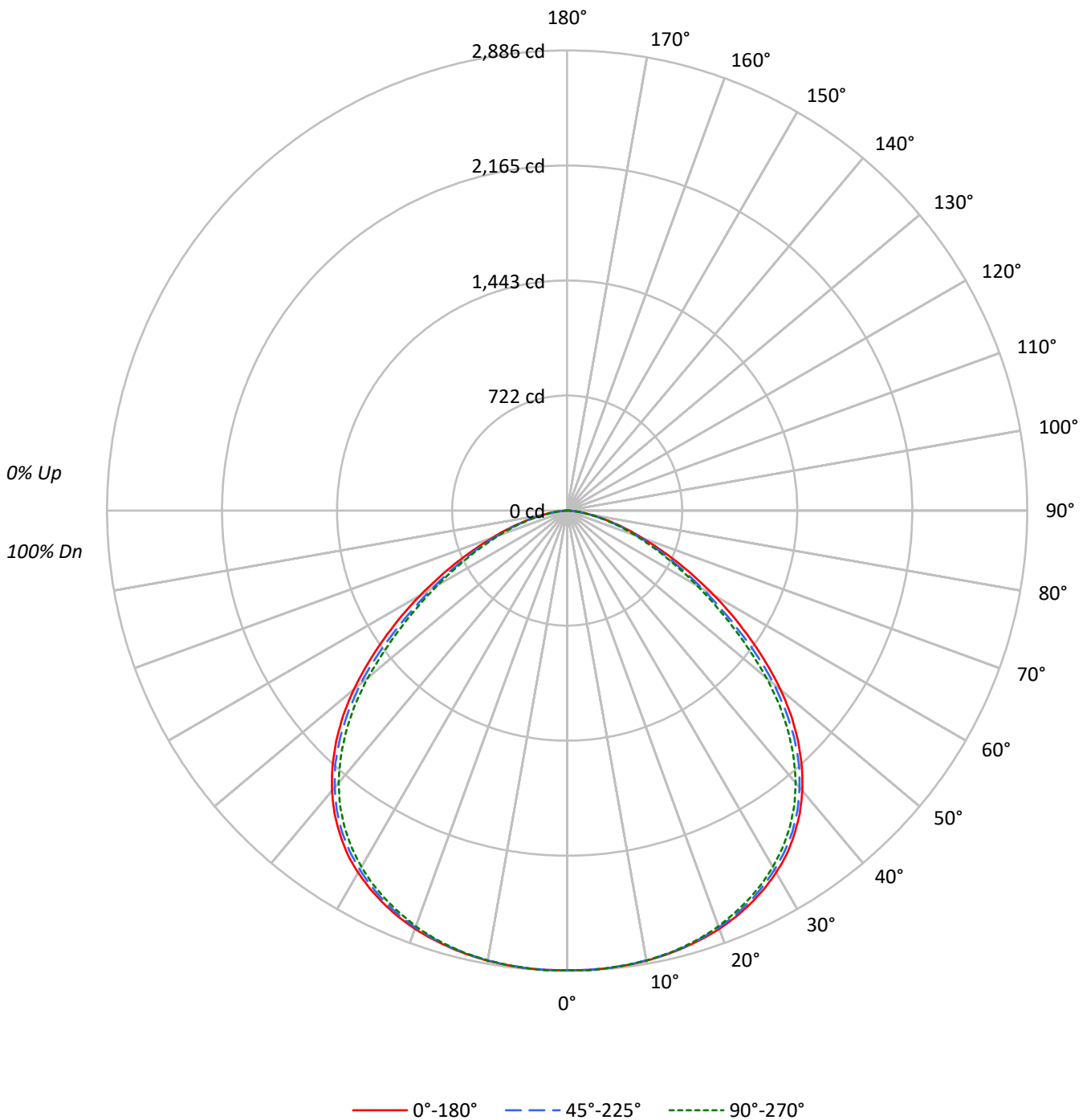
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7670.0 lumens
Efficiency: N/A
Efficacy: 127.2 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): 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	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					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°	3878	3878	3878
5°	3891	3891	3891
10°	3917	3913	3914
15°	3952	3947	3944
20°	3997	3984	3973
25°	4039	4018	3996
30°	4074	4040	4009
35°	4078	4043	3993
40°	4031	3984	3917
45°	3900	3829	3730
50°	3657	3544	3414
55°	3287	3092	2964
60°	2862	2634	2533
65°	2408	2228	2131
70°	1963	1864	1788
75°	1573	1517	1454
80°	1208	1113	1083
85°	755	732	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	3.6
10°-20°	801.0	10.4
20°-30°	1247.9	16.3
30°-40°	1535.2	20.0
40°-50°	1542.0	20.1
50°-60°	1188.5	15.5
60°-70°	705.6	9.2
70°-80°	314.1	4.1
80°-90°	61.3	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°	2323.4	30.3
0°-40°	3858.5	50.3
0°-60°	6589.0	85.9
0°-90°	7670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2882	2882	2882	2882	2882	
5°	2881	2882	2881	2878	2881	275
15°	2837	2837	2834	2829	2831	802
25°	2720	2720	2707	2694	2692	1255
35°	2483	2479	2462	2441	2431	1550
45°	2050	2044	2012	1979	1960	1573
55°	1401	1374	1318	1278	1264	1253
65°	756	724	700	673	669	756
75°	302	296	292	282	280	327
85°	49	47	47	45	47	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2882.5	2882.5	2882.5	2882.5	2882.5
2.5°	2884.0	2883.2	2883.2	2880.2	2886.3
5°	2881.0	2881.7	2881.0	2877.9	2881.0
7.5°	2874.8	2875.6	2874.1	2871.0	2874.1
10°	2867.2	2867.2	2864.1	2862.6	2864.9
12.5°	2854.2	2854.2	2851.2	2848.9	2851.2
15°	2837.4	2837.4	2833.6	2829.0	2831.3
17.5°	2816.8	2816.8	2810.7	2804.6	2806.1
20°	2791.6	2790.8	2782.4	2774.0	2774.8
22.5°	2759.5	2758.7	2748.0	2738.1	2735.0
25°	2720.5	2719.8	2706.8	2694.5	2691.5
27.5°	2675.4	2672.4	2657.9	2644.1	2641.1
30°	2622.0	2619.7	2600.6	2586.8	2580.7
32.5°	2560.1	2554.0	2536.4	2519.6	2511.2
35°	2482.9	2479.1	2461.5	2440.9	2431.0
37.5°	2395.8	2392.0	2372.9	2350.0	2338.5
40°	2295.0	2291.9	2268.2	2244.6	2230.0
42.5°	2178.9	2176.6	2151.4	2118.5	2103.2
45°	2049.7	2044.4	2012.3	1978.7	1960.4
47.5°	1906.1	1897.0	1858.0	1825.9	1806.0
50°	1747.2	1735.0	1693.0	1651.7	1631.1
52.5°	1575.3	1553.9	1510.4	1463.0	1443.2
55°	1401.1	1374.4	1317.9	1278.1	1263.6
57.5°	1230.8	1191.8	1138.3	1110.1	1095.5
60°	1063.5	1020.7	978.7	951.2	941.2
62.5°	903.8	867.9	832.0	804.5	798.4
65°	756.3	723.5	699.8	673.1	669.2
67.5°	618.8	603.5	582.2	559.2	556.2
70°	498.9	492.8	473.7	459.9	454.6
72.5°	398.0	391.9	378.2	368.2	366.7
75°	302.5	296.4	291.8	281.9	279.6
77.5°	215.4	216.2	212.4	207.0	208.6
80°	155.9	146.7	143.6	140.6	139.8
82.5°	95.5	90.1	87.9	87.1	88.6
85°	48.9	46.6	47.4	45.1	47.4
87.5°	16.8	16.8	17.6	16.8	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)