

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: P412479

Luminaire Tested: **24PD-10-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412479
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-10-PB1-L830
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

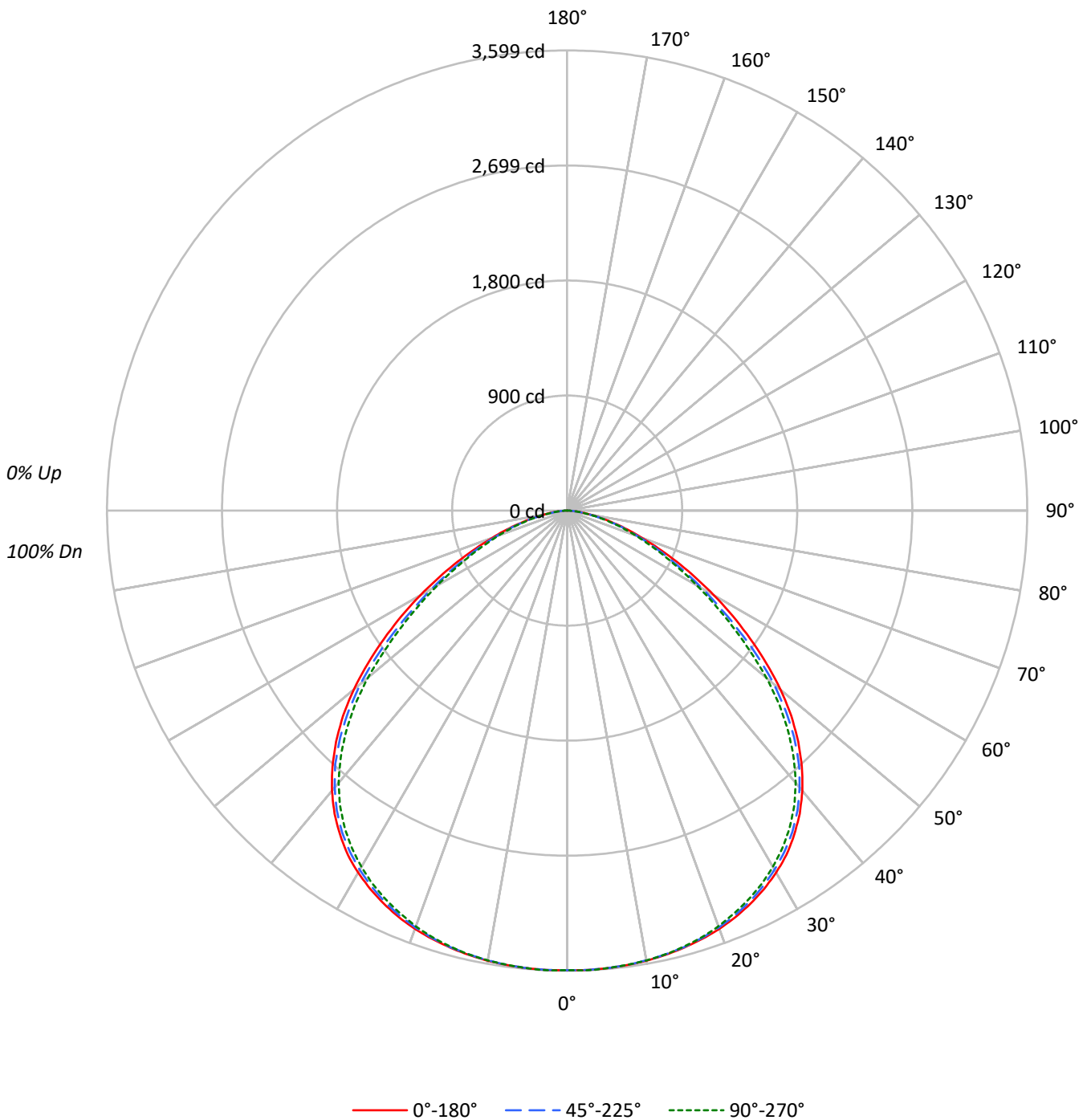
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9565.0 lumens
Efficiency: N/A
Efficacy: 123.6 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): 77.4
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°	4836	4836	4836
5°	4852	4852	4852
10°	4885	4880	4881
15°	4929	4922	4918
20°	4985	4968	4955
25°	5037	5011	4983
30°	5080	5039	5000
35°	5086	5042	4980
40°	5027	4968	4885
45°	4864	4775	4652
50°	4561	4419	4258
55°	4099	3855	3696
60°	3569	3284	3159
65°	3003	2778	2657
70°	2447	2324	2230
75°	1961	1892	1813
80°	1506	1388	1351
85°	942	912	912



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.2	3.6
10°-20°	998.9	10.4
20°-30°	1556.2	16.3
30°-40°	1914.5	20.0
40°-50°	1923.0	20.1
50°-60°	1482.1	15.5
60°-70°	879.9	9.2
70°-80°	391.7	4.1
80°-90°	76.5	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°	2897.4	30.3
0°-40°	4811.8	50.3
0°-60°	8216.9	85.9
0°-90°	9565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3595	3595	3595	3595	3595	
5°	3593	3594	3593	3589	3593	342
15°	3538	3538	3534	3528	3531	1001
25°	3393	3392	3376	3360	3356	1565
35°	3096	3092	3070	3044	3032	1933
45°	2556	2550	2510	2468	2445	1962
55°	1747	1714	1644	1594	1576	1563
65°	943	902	873	839	835	943
75°	377	370	364	352	349	408
85°	61	58	59	56	59	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3594.6	3594.6	3594.6	3594.6	3594.6
2.5°	3596.6	3595.6	3595.6	3591.8	3599.4
5°	3592.7	3593.7	3592.7	3588.9	3592.7
7.5°	3585.1	3586.1	3584.2	3580.4	3584.2
10°	3575.6	3575.6	3571.8	3569.9	3572.7
12.5°	3559.4	3559.4	3555.6	3552.7	3555.6
15°	3538.4	3538.4	3533.7	3528.0	3530.8
17.5°	3512.7	3512.7	3505.1	3497.5	3499.4
20°	3481.3	3480.3	3469.8	3459.4	3460.3
22.5°	3441.3	3440.3	3427.0	3414.6	3410.8
25°	3392.7	3391.7	3375.5	3360.3	3356.5
27.5°	3336.5	3332.6	3314.5	3297.4	3293.6
30°	3269.8	3266.9	3243.1	3225.9	3218.3
32.5°	3192.6	3185.0	3163.1	3142.1	3131.6
35°	3096.4	3091.6	3069.7	3044.0	3031.6
37.5°	2987.8	2983.0	2959.2	2930.6	2916.3
40°	2862.0	2858.2	2828.7	2799.1	2781.0
42.5°	2717.2	2714.3	2682.9	2641.9	2622.9
45°	2556.2	2549.5	2509.5	2467.6	2444.7
47.5°	2377.1	2365.6	2317.0	2277.0	2252.3
50°	2178.9	2163.6	2111.2	2059.8	2034.1
52.5°	1964.5	1937.9	1883.5	1824.5	1799.7
55°	1747.3	1714.0	1643.5	1593.9	1575.8
57.5°	1534.8	1486.3	1419.6	1384.3	1366.2
60°	1326.2	1272.8	1220.4	1186.1	1173.8
62.5°	1127.1	1082.3	1037.5	1003.2	995.6
65°	943.2	902.2	872.7	839.4	834.6
67.5°	771.7	752.7	726.0	697.4	693.6
70°	622.1	614.5	590.7	573.5	566.9
72.5°	496.4	488.8	471.6	459.2	457.3
75°	377.3	369.7	363.9	351.6	348.7
77.5°	268.7	269.6	264.9	258.2	260.1
80°	194.4	182.9	179.1	175.3	174.3
82.5°	119.1	112.4	109.6	108.6	110.5
85°	61.0	58.1	59.1	56.2	59.1
87.5°	21.0	21.0	21.9	21.0	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)