

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: P412487

Luminaire Tested: **24PD-10-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412487
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-L950
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

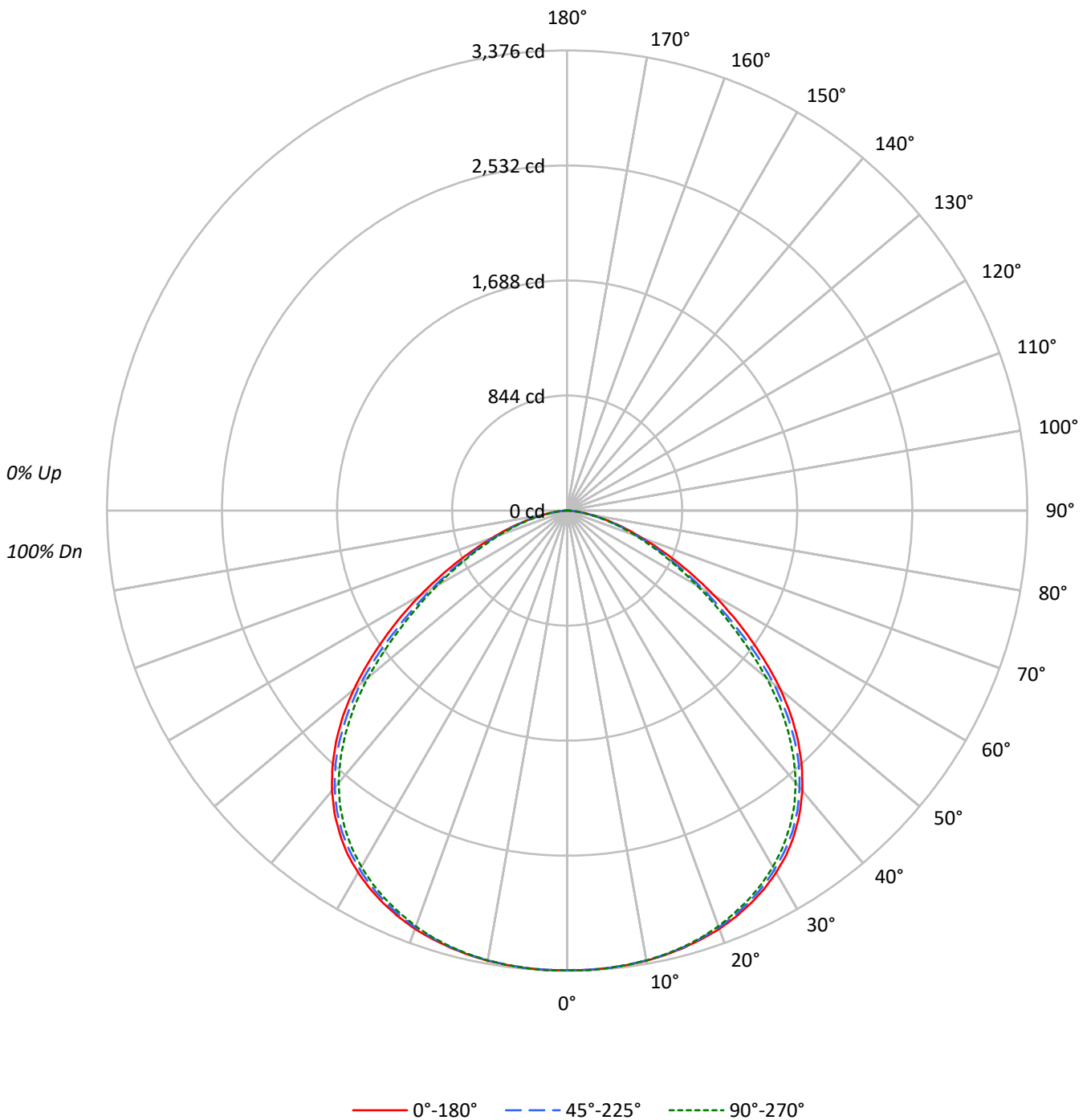
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8971.0 lumens
Efficiency: N/A
Efficacy: 115.9 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

TEST NUMBER: P412487
CATALOG NUMBER: 24PD-10-PB1-L950

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°	4536	4536	4536
5°	4551	4551	4551
10°	4582	4577	4578
15°	4623	4617	4613
20°	4675	4660	4647
25°	4724	4700	4673
30°	4765	4726	4690
35°	4770	4729	4670
40°	4715	4660	4581
45°	4562	4478	4363
50°	4278	4145	3993
55°	3844	3616	3467
60°	3347	3080	2962
65°	2816	2606	2492
70°	2295	2179	2092
75°	1840	1774	1700
80°	1413	1302	1267
85°	883	855	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.0	3.6
10°-20°	936.9	10.4
20°-30°	1459.6	16.3
30°-40°	1795.6	20.0
40°-50°	1803.6	20.1
50°-60°	1390.1	15.5
60°-70°	825.2	9.2
70°-80°	367.4	4.1
80°-90°	71.8	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°	2717.5	30.3
0°-40°	4513.0	50.3
0°-60°	7706.6	85.9
0°-90°	8971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3371	3371	3371	3371	3371	
5°	3370	3370	3370	3366	3370	321
15°	3319	3319	3314	3309	3312	938
25°	3182	3181	3166	3152	3148	1467
35°	2904	2900	2879	2855	2843	1813
45°	2397	2391	2354	2314	2293	1840
55°	1639	1608	1541	1495	1478	1465
65°	885	846	818	787	783	884
75°	354	347	341	330	327	383
85°	57	54	55	53	55	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3371.4	3371.4	3371.4	3371.4	3371.4
2.5°	3373.2	3372.3	3372.3	3368.7	3375.9
5°	3369.6	3370.5	3369.6	3366.1	3369.6
7.5°	3362.5	3363.4	3361.6	3358.0	3361.6
10°	3353.5	3353.5	3350.0	3348.2	3350.9
12.5°	3338.4	3338.4	3334.8	3332.1	3334.8
15°	3318.7	3318.7	3314.2	3308.9	3311.5
17.5°	3294.6	3294.6	3287.4	3280.3	3282.1
20°	3265.1	3264.2	3254.4	3244.5	3245.4
22.5°	3227.6	3226.7	3214.1	3202.5	3199.0
25°	3182.0	3181.1	3165.9	3151.6	3148.0
27.5°	3129.3	3125.7	3108.7	3092.6	3089.1
30°	3066.7	3064.0	3041.7	3025.6	3018.5
32.5°	2994.3	2987.2	2966.6	2947.0	2937.1
35°	2904.1	2899.6	2879.1	2854.9	2843.3
37.5°	2802.2	2797.7	2775.4	2748.6	2735.2
40°	2684.3	2680.7	2653.0	2625.3	2608.3
42.5°	2548.4	2545.8	2516.3	2477.9	2460.0
45°	2397.4	2391.2	2353.6	2314.3	2292.9
47.5°	2229.4	2218.7	2173.1	2135.6	2112.4
50°	2043.6	2029.3	1980.1	1931.9	1907.8
52.5°	1842.5	1817.5	1766.6	1711.2	1687.9
55°	1638.8	1607.5	1541.4	1494.9	1478.0
57.5°	1439.5	1394.0	1331.4	1298.3	1281.4
60°	1243.8	1193.8	1144.7	1112.5	1100.9
62.5°	1057.1	1015.1	973.1	940.9	933.8
65°	884.6	846.2	818.5	787.2	782.8
67.5°	723.8	705.9	680.9	654.1	650.5
70°	583.5	576.3	554.0	537.9	531.7
72.5°	465.5	458.4	442.3	430.7	428.9
75°	353.9	346.7	341.3	329.7	327.0
77.5°	252.0	252.9	248.4	242.2	243.9
80°	182.3	171.6	168.0	164.4	163.5
82.5°	111.7	105.4	102.8	101.9	103.7
85°	57.2	54.5	55.4	52.7	55.4
87.5°	19.7	19.7	20.6	19.7	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)