

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: P412481

Luminaire Tested: **24PD-10-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412481
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-L840
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

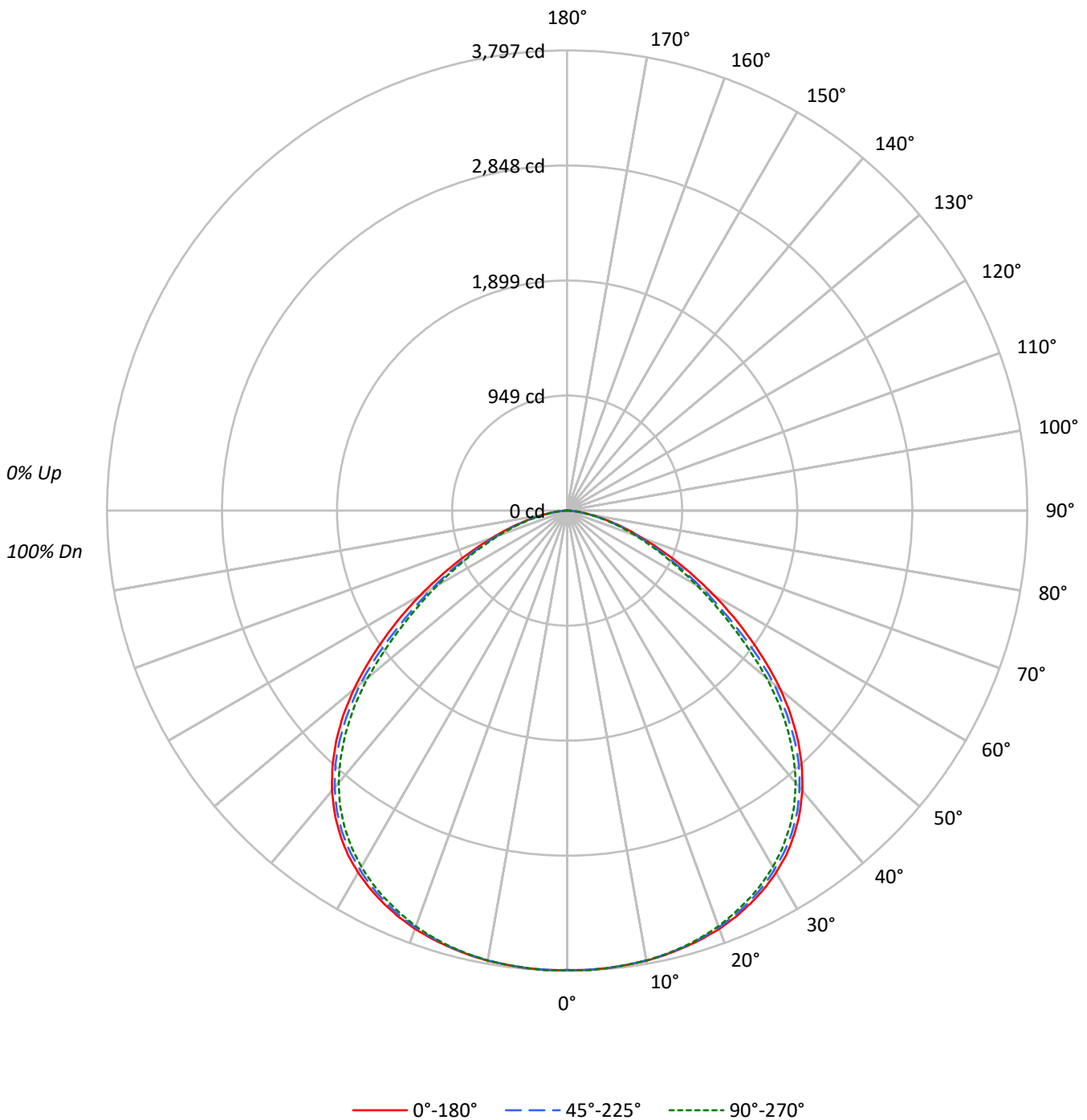
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10089.0 lumens
Efficiency: N/A
Efficacy: 130.3 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): 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	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°	5102	5102	5102
5°	5118	5118	5118
10°	5153	5147	5149
15°	5199	5192	5188
20°	5258	5240	5226
25°	5313	5286	5256
30°	5358	5315	5274
35°	5365	5318	5252
40°	5302	5240	5152
45°	5130	5037	4907
50°	4811	4661	4491
55°	4323	4066	3899
60°	3764	3464	3332
65°	3167	2931	2803
70°	2581	2451	2352
75°	2069	1996	1912
80°	1588	1464	1425
85°	993	962	962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.0	3.6
10°-20°	1053.7	10.4
20°-30°	1641.5	16.3
30°-40°	2019.3	20.0
40°-50°	2028.3	20.1
50°-60°	1563.3	15.5
60°-70°	928.1	9.2
70°-80°	413.2	4.1
80°-90°	80.7	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°	3056.1	30.3
0°-40°	5075.4	50.3
0°-60°	8667.1	85.9
0°-90°	10089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3792	3792	3792	3792	3792	
5°	3790	3791	3790	3786	3790	361
15°	3732	3732	3727	3721	3724	1055
25°	3578	3578	3560	3544	3540	1650
35°	3266	3261	3238	3211	3198	2039
45°	2696	2689	2647	2603	2579	2069
55°	1843	1808	1734	1681	1662	1648
65°	995	952	920	885	880	994
75°	398	390	384	371	368	431
85°	64	61	62	59	62	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3791.6	3791.6	3791.6	3791.6	3791.6
2.5°	3793.6	3792.6	3792.6	3788.6	3796.6
5°	3789.6	3790.6	3789.6	3785.5	3789.6
7.5°	3781.5	3782.5	3780.5	3776.5	3780.5
10°	3771.5	3771.5	3767.5	3765.4	3768.5
12.5°	3754.4	3754.4	3750.4	3747.4	3750.4
15°	3732.3	3732.3	3727.3	3721.2	3724.2
17.5°	3705.2	3705.2	3697.1	3689.1	3691.1
20°	3672.0	3671.0	3659.9	3648.9	3649.9
22.5°	3629.8	3628.8	3614.7	3601.6	3597.6
25°	3578.5	3577.5	3560.4	3544.4	3540.3
27.5°	3519.2	3515.2	3496.1	3478.0	3474.0
30°	3448.9	3445.9	3420.8	3402.7	3394.6
32.5°	3367.5	3359.5	3336.3	3314.2	3303.2
35°	3266.0	3261.0	3237.9	3210.7	3197.7
37.5°	3151.4	3146.4	3121.3	3091.1	3076.1
40°	3018.8	3014.8	2983.6	2952.5	2933.4
42.5°	2866.0	2863.0	2829.9	2786.7	2766.6
45°	2696.2	2689.2	2647.0	2602.8	2578.6
47.5°	2507.3	2495.2	2444.0	2401.8	2375.6
50°	2298.3	2282.2	2226.9	2172.6	2145.5
52.5°	2072.2	2044.0	1986.7	1924.4	1898.3
55°	1843.0	1807.9	1733.5	1681.2	1662.1
57.5°	1618.9	1567.7	1497.3	1460.2	1441.1
60°	1398.9	1342.6	1287.3	1251.1	1238.1
62.5°	1188.8	1141.6	1094.4	1058.2	1050.1
65°	994.9	951.7	920.5	885.3	880.3
67.5°	814.0	793.9	765.8	735.6	731.6
70°	656.2	648.2	623.1	605.0	597.9
72.5°	523.6	515.5	497.4	484.4	482.4
75°	397.9	389.9	383.9	370.8	367.8
77.5°	283.4	284.4	279.4	272.3	274.3
80°	205.0	192.9	188.9	184.9	183.9
82.5°	125.6	118.6	115.6	114.6	116.6
85°	64.3	61.3	62.3	59.3	62.3
87.5°	22.1	22.1	23.1	22.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)