

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: P412590

Luminaire Tested: **24PD-85-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412590
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-85-PB1-L850
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

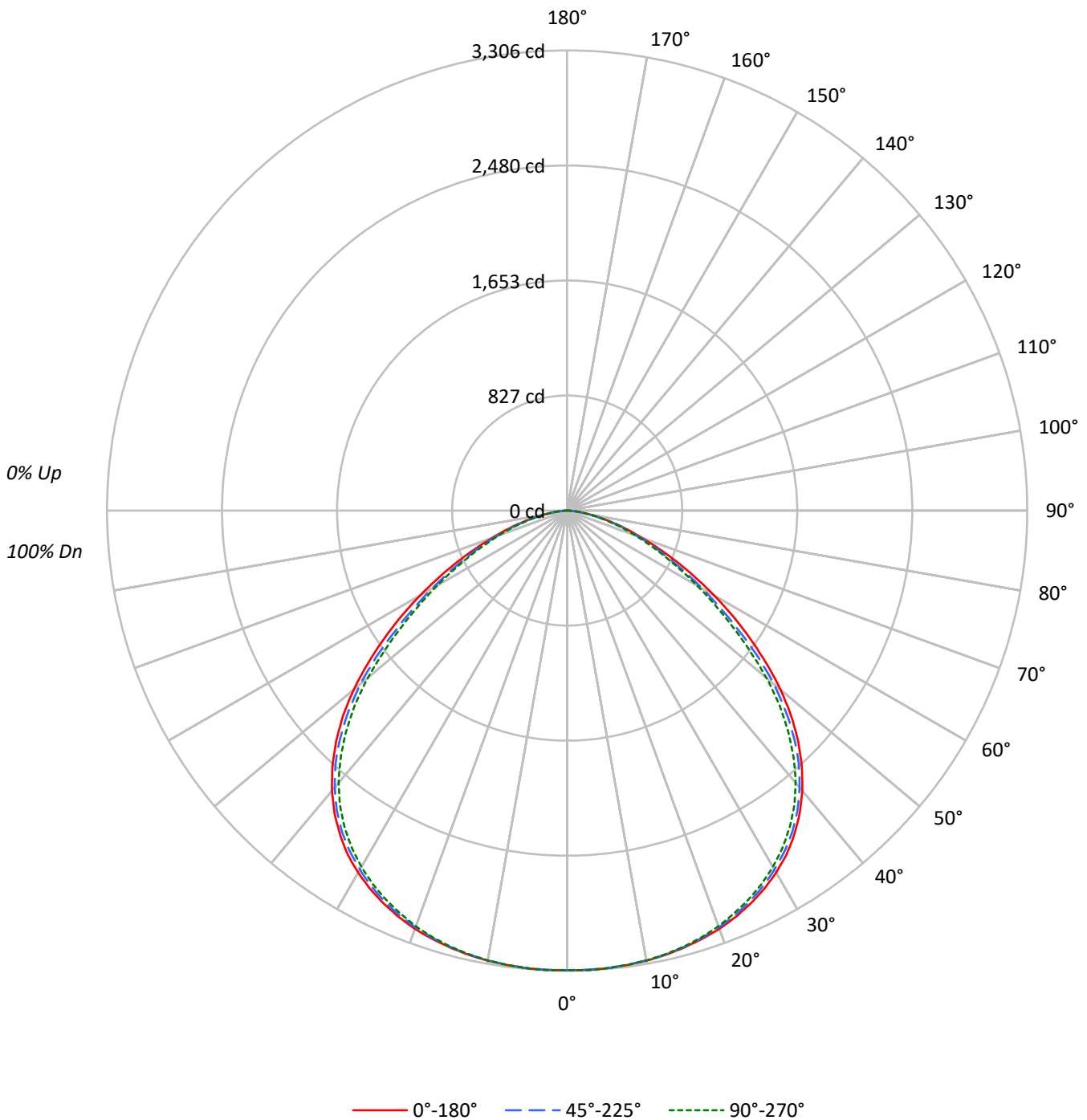
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8785.0 lumens
Efficiency: N/A
Efficacy: 136.2 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): 64.5
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°	4442	4442	4442
5°	4457	4457	4457
10°	4487	4482	4483
15°	4527	4521	4517
20°	4578	4563	4551
25°	4626	4603	4577
30°	4666	4628	4592
35°	4671	4631	4573
40°	4617	4563	4486
45°	4467	4386	4272
50°	4189	4059	3911
55°	3765	3541	3395
60°	3278	3016	2901
65°	2758	2552	2440
70°	2248	2134	2048
75°	1801	1738	1665
80°	1383	1275	1241
85°	865	838	838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	3.6
10°-20°	917.5	10.4
20°-30°	1429.3	16.3
30°-40°	1758.3	20.0
40°-50°	1766.2	20.1
50°-60°	1361.2	15.5
60°-70°	808.1	9.2
70°-80°	359.8	4.1
80°-90°	70.3	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°	2661.1	30.3
0°-40°	4419.5	50.3
0°-60°	7546.8	85.9
0°-90°	8785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3302	3302	3302	3302	3302	
5°	3300	3301	3300	3296	3300	314
15°	3250	3250	3246	3240	3243	919
25°	3116	3115	3100	3086	3083	1437
35°	2844	2840	2819	2796	2784	1776
45°	2348	2342	2305	2266	2245	1802
55°	1605	1574	1509	1464	1447	1435
65°	866	829	802	771	766	866
75°	346	340	334	323	320	375
85°	56	53	54	52	54	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3301.5	3301.5	3301.5	3301.5	3301.5
2.5°	3303.3	3302.4	3302.4	3298.9	3305.9
5°	3299.8	3300.6	3299.8	3296.3	3299.8
7.5°	3292.8	3293.6	3291.9	3288.4	3291.9
10°	3284.0	3284.0	3280.5	3278.8	3281.4
12.5°	3269.1	3269.1	3265.6	3263.0	3265.6
15°	3249.9	3249.9	3245.5	3240.3	3242.9
17.5°	3226.3	3226.3	3219.3	3212.3	3214.0
20°	3197.4	3196.5	3186.9	3177.3	3178.1
22.5°	3160.6	3159.8	3147.5	3136.1	3132.6
25°	3116.0	3115.1	3100.3	3086.3	3082.8
27.5°	3064.4	3060.9	3044.3	3028.5	3025.0
30°	3003.1	3000.5	2978.6	2962.9	2955.9
32.5°	2932.2	2925.2	2905.1	2885.9	2876.2
35°	2843.9	2839.5	2819.4	2795.7	2784.4
37.5°	2744.1	2739.7	2717.9	2691.6	2678.5
40°	2628.6	2625.1	2598.0	2570.9	2554.2
42.5°	2495.6	2493.0	2464.1	2426.5	2409.0
45°	2347.7	2341.6	2304.8	2266.3	2245.3
47.5°	2183.2	2172.7	2128.1	2091.3	2068.6
50°	2001.2	1987.2	1939.1	1891.8	1868.2
52.5°	1804.3	1779.8	1729.9	1675.7	1652.9
55°	1604.8	1574.2	1509.4	1463.9	1447.3
57.5°	1409.7	1365.1	1303.8	1271.4	1254.8
60°	1218.1	1169.0	1120.9	1089.4	1078.0
62.5°	1035.2	994.0	952.9	921.4	914.4
65°	866.3	828.7	801.5	770.9	766.5
67.5°	708.8	691.3	666.8	640.5	637.0
70°	571.4	564.4	542.5	526.8	520.6
72.5°	455.9	448.9	433.1	421.8	420.0
75°	346.5	339.5	334.3	322.9	320.3
77.5°	246.8	247.6	243.3	237.1	238.9
80°	178.5	168.0	164.5	161.0	160.1
82.5°	109.4	103.3	100.6	99.8	101.5
85°	56.0	53.4	54.3	51.6	54.3
87.5°	19.3	19.3	20.1	19.3	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)