

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: P412598

Luminaire Tested: **24PD-90-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412598
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-90-PB1-L840
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

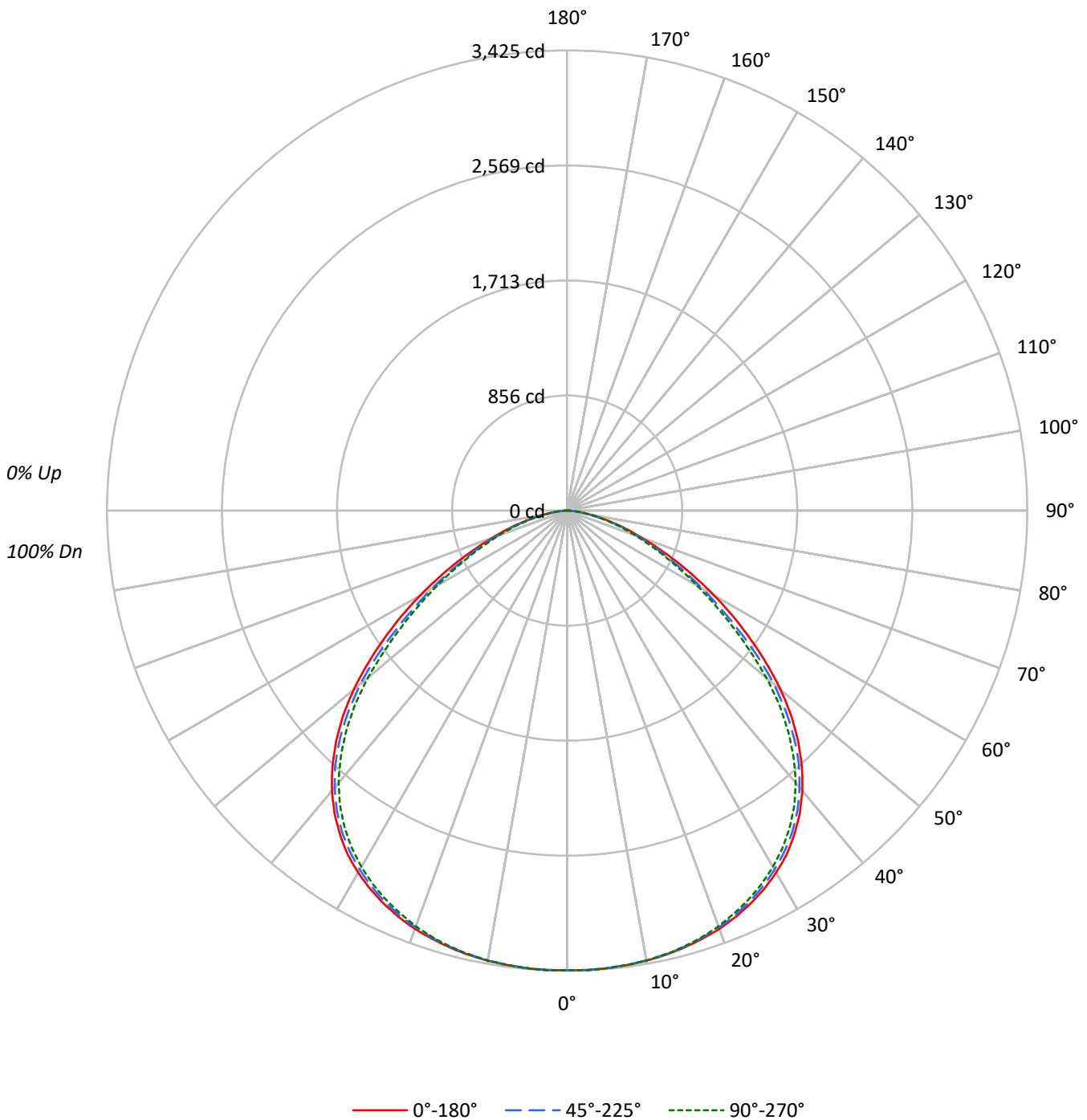
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9102.0 lumens
Efficiency: N/A
Efficacy: 132.5 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): 68.7
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°	4602	4602	4602
5°	4618	4618	4618
10°	4649	4644	4645
15°	4690	4684	4680
20°	4743	4728	4715
25°	4793	4769	4742
30°	4834	4795	4758
35°	4840	4798	4738
40°	4784	4728	4648
45°	4628	4544	4427
50°	4340	4205	4052
55°	3900	3669	3518
60°	3396	3125	3006
65°	2857	2644	2528
70°	2329	2211	2122
75°	1866	1800	1725
80°	1433	1320	1285
85°	895	868	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.7	3.6
10°-20°	950.6	10.4
20°-30°	1480.9	16.3
30°-40°	1821.8	20.0
40°-50°	1829.9	20.1
50°-60°	1410.4	15.5
60°-70°	837.3	9.2
70°-80°	372.8	4.1
80°-90°	72.8	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°	2757.1	30.3
0°-40°	4578.9	50.3
0°-60°	7819.2	85.9
0°-90°	9102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3421	3421	3421	3421	3421	
5°	3419	3420	3419	3415	3419	326
15°	3367	3367	3363	3357	3360	952
25°	3228	3228	3212	3198	3194	1489
35°	2946	2942	2921	2897	2885	1840
45°	2432	2426	2388	2348	2326	1867
55°	1663	1631	1564	1517	1500	1487
65°	898	859	830	799	794	897
75°	359	352	346	334	332	389
85°	58	55	56	54	56	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3420.6	3420.6	3420.6	3420.6	3420.6
2.5°	3422.5	3421.6	3421.6	3417.9	3425.2
5°	3418.8	3419.7	3418.8	3415.2	3418.8
7.5°	3411.6	3412.5	3410.7	3407.0	3410.7
10°	3402.5	3402.5	3398.9	3397.1	3399.8
12.5°	3387.1	3387.1	3383.5	3380.8	3383.5
15°	3367.2	3367.2	3362.6	3357.2	3359.9
17.5°	3342.7	3342.7	3335.4	3328.2	3330.0
20°	3312.8	3311.9	3301.9	3291.9	3292.8
22.5°	3274.7	3273.8	3261.1	3249.3	3245.7
25°	3228.4	3227.5	3212.1	3197.6	3194.0
27.5°	3175.0	3171.3	3154.1	3137.8	3134.2
30°	3111.5	3108.8	3086.1	3069.8	3062.5
32.5°	3038.1	3030.8	3010.0	2990.0	2980.0
35°	2946.5	2942.0	2921.1	2896.6	2884.8
37.5°	2843.1	2838.6	2815.9	2788.7	2775.1
40°	2723.5	2719.8	2691.7	2663.6	2646.4
42.5°	2585.7	2582.9	2553.0	2514.0	2495.9
45°	2432.4	2426.1	2388.0	2348.1	2326.4
47.5°	2262.0	2251.1	2204.9	2166.8	2143.2
50°	2073.4	2058.9	2009.1	1960.1	1935.6
52.5°	1869.4	1844.0	1792.4	1736.2	1712.6
55°	1662.7	1631.0	1563.9	1516.8	1499.5
57.5°	1460.6	1414.3	1350.9	1317.3	1300.1
60°	1262.0	1211.2	1161.4	1128.7	1116.9
62.5°	1072.5	1029.9	987.3	954.7	947.4
65°	897.5	858.6	830.5	798.7	794.2
67.5°	734.4	716.2	690.8	663.6	660.0
70°	592.0	584.8	562.1	545.8	539.4
72.5°	472.3	465.1	448.8	437.0	435.2
75°	359.0	351.8	346.3	334.5	331.8
77.5°	255.7	256.6	252.0	245.7	247.5
80°	184.9	174.1	170.4	166.8	165.9
82.5°	113.3	107.0	104.3	103.4	105.2
85°	58.0	55.3	56.2	53.5	56.2
87.5°	19.9	19.9	20.9	19.9	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)