

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: P412950

Luminaire Tested: **24PD-95-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-95-PP3-L850
Description: 9500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

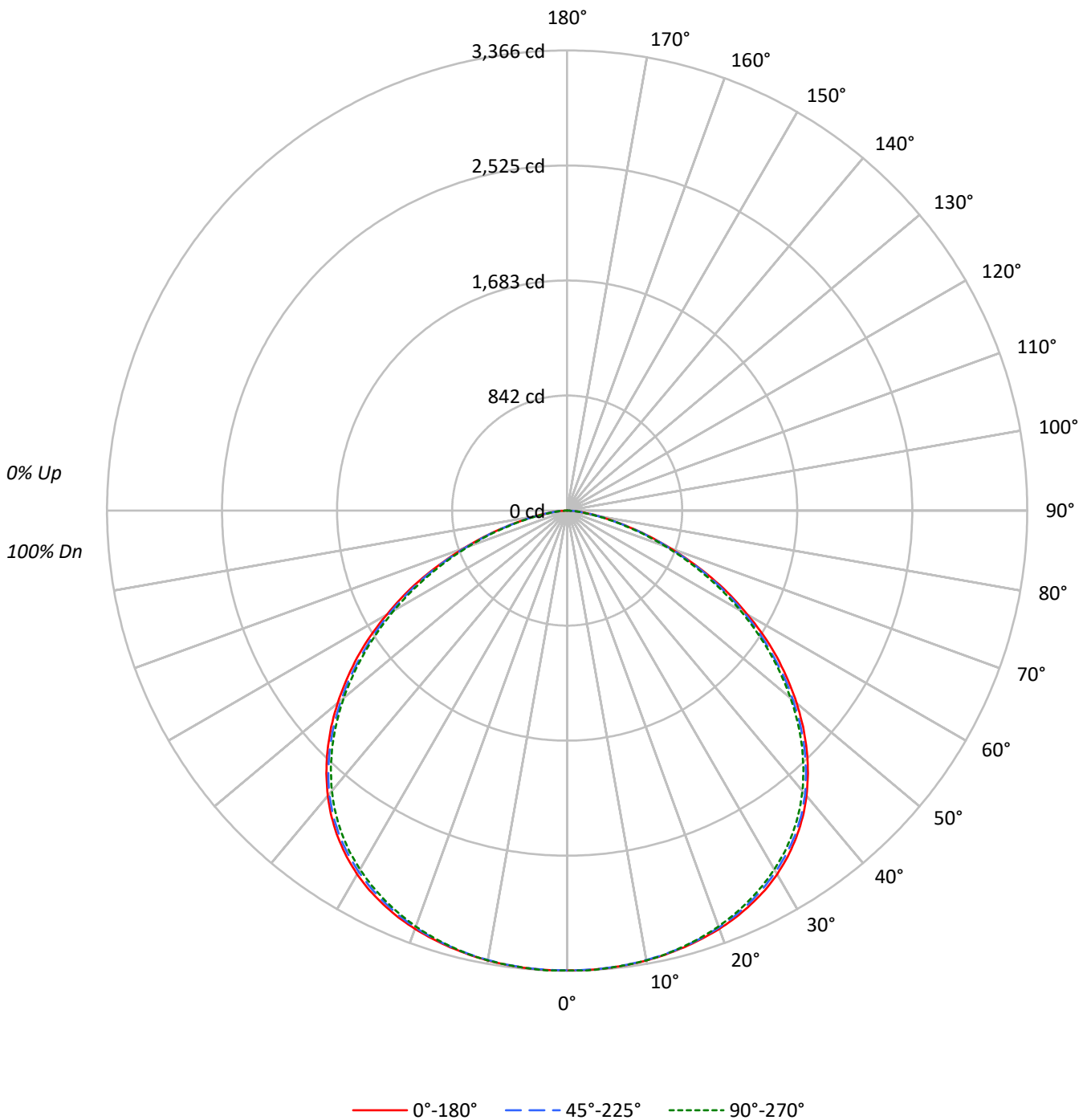
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9787.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 73
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4526	4526	4526
5°	4538	4536	4539
10°	4566	4561	4565
15°	4606	4599	4597
20°	4662	4647	4635
25°	4720	4696	4674
30°	4773	4739	4709
35°	4799	4770	4726
40°	4786	4757	4703
45°	4718	4671	4619
50°	4588	4514	4467
55°	4398	4293	4238
60°	4098	4027	3945
65°	3715	3640	3534
70°	3170	3113	3013
75°	2476	2451	2334
80°	1826	1750	1652
85°	1102	1102	1027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	3.3
10°-20°	933.8	9.5
20°-30°	1459.5	14.9
30°-40°	1813.9	18.5
40°-50°	1890.0	19.3
50°-60°	1640.0	16.8
60°-70°	1127.7	11.5
70°-80°	508.9	5.2
80°-90°	93.2	1.0
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°	2713.3	27.7
0°-40°	4527.2	46.3
0°-60°	8057.2	82.3
0°-90°	9787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3364	3364	3364	3364	3364	
5°	3360	3361	3359	3356	3361	320
15°	3307	3307	3302	3299	3300	935
25°	3180	3179	3163	3150	3148	1467
35°	2921	2921	2904	2887	2877	1826
45°	2479	2480	2455	2436	2428	1908
55°	1875	1864	1830	1808	1806	1671
65°	1167	1162	1143	1116	1110	1152
75°	476	478	471	459	449	519
85°	71	70	71	70	66	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3363.5	3363.5	3363.5	3363.5	3363.5
2.5°	3364.5	3364.5	3362.5	3359.6	3366.4
5°	3359.6	3360.6	3358.6	3355.7	3360.6
7.5°	3352.7	3353.7	3350.8	3347.9	3351.8
10°	3342.0	3341.0	3338.1	3336.1	3341.0
12.5°	3326.3	3325.4	3322.4	3320.5	3324.4
15°	3306.8	3306.8	3301.9	3299.0	3299.9
17.5°	3283.3	3283.3	3276.5	3269.6	3271.6
20°	3255.9	3254.9	3245.2	3238.3	3237.3
22.5°	3221.7	3221.7	3208.0	3199.2	3196.3
25°	3179.6	3178.7	3163.0	3150.3	3148.3
27.5°	3131.7	3129.8	3111.2	3098.5	3093.6
30°	3072.0	3070.1	3050.5	3036.8	3031.0
32.5°	3001.6	3004.6	2982.1	2966.4	2960.6
35°	2921.4	2921.4	2903.8	2887.2	2877.4
37.5°	2829.5	2829.5	2812.9	2796.2	2784.5
40°	2724.8	2725.8	2708.2	2687.7	2677.9
42.5°	2607.5	2609.4	2586.0	2569.3	2558.6
45°	2479.4	2480.3	2454.9	2436.3	2427.5
47.5°	2340.5	2338.5	2310.1	2294.5	2285.7
50°	2191.8	2187.9	2156.6	2141.9	2134.1
52.5°	2036.3	2028.5	2001.1	1979.6	1972.7
55°	1874.9	1864.2	1829.9	1808.4	1806.5
57.5°	1706.7	1694.0	1665.6	1645.1	1637.3
60°	1522.8	1519.9	1496.4	1472.0	1466.1
62.5°	1350.7	1341.9	1321.3	1292.0	1289.1
65°	1166.8	1161.9	1143.3	1116.0	1110.1
67.5°	977.1	982.0	966.3	941.9	934.0
70°	805.9	808.8	791.2	768.7	765.8
72.5°	633.8	638.7	624.0	609.3	606.4
75°	476.3	478.3	471.4	458.7	448.9
77.5°	338.4	345.3	337.4	328.6	320.8
80°	235.7	225.0	225.9	222.0	213.2
82.5°	141.8	136.9	135.9	132.0	128.1
85°	71.4	70.4	71.4	70.4	66.5
87.5°	23.5	25.4	26.4	26.4	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)