

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: P412608

Luminaire Tested: **24PD-95-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412608
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-95-PB1-L850
Description: 9500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

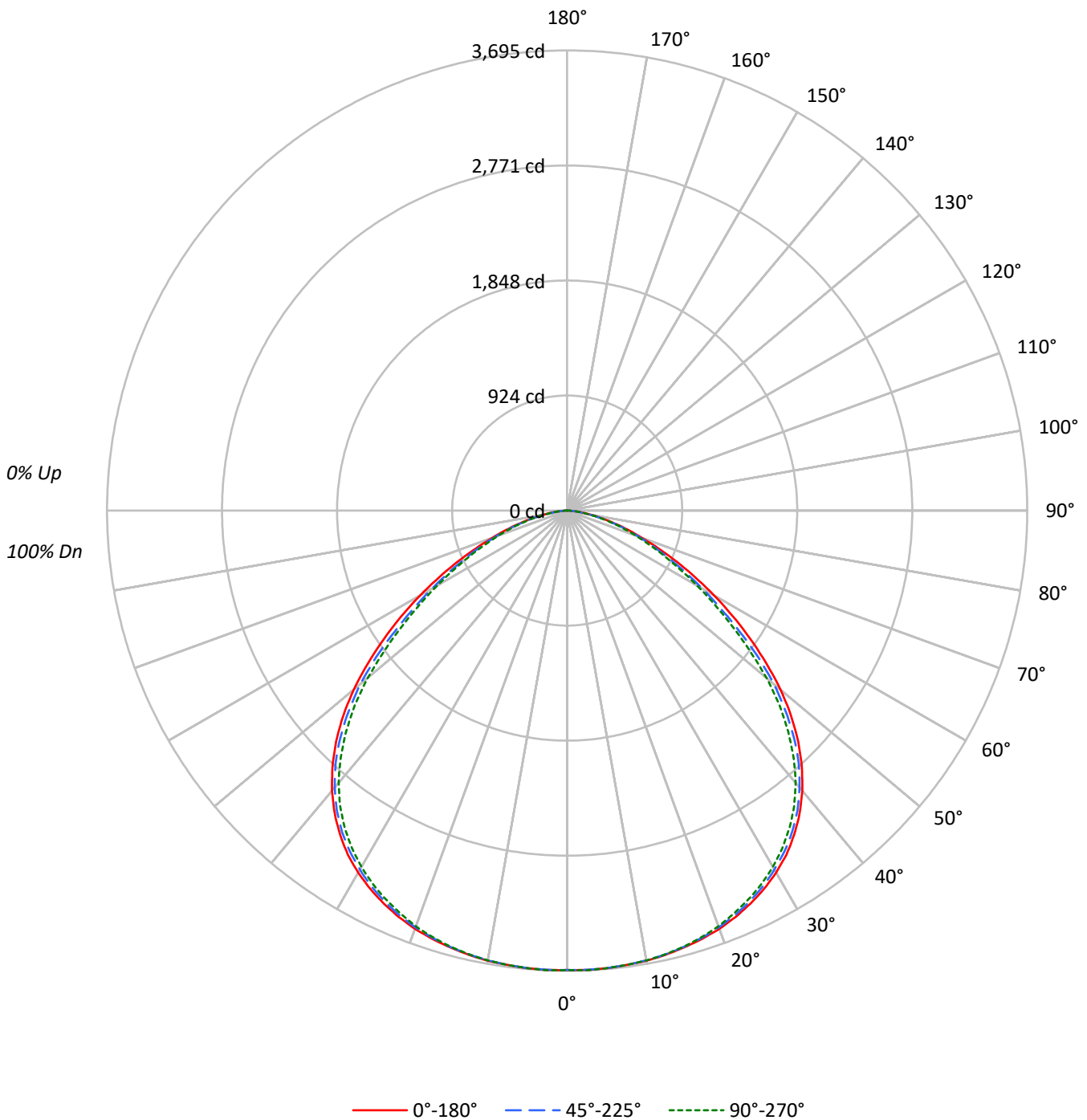
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9818.0 lumens
Efficiency: N/A
Efficacy: 134.5 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): 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	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°	4964	4964	4964
5°	4981	4981	4981
10°	5014	5009	5010
15°	5059	5052	5048
20°	5117	5100	5086
25°	5170	5144	5115
30°	5214	5172	5132
35°	5220	5175	5111
40°	5160	5100	5014
45°	4993	4901	4775
50°	4681	4536	4370
55°	4207	3957	3794
60°	3663	3371	3242
65°	3082	2852	2727
70°	2512	2385	2289
75°	2013	1942	1861
80°	1546	1425	1387
85°	966	936	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.3	3.6
10°-20°	1025.4	10.4
20°-30°	1597.4	16.3
30°-40°	1965.1	20.0
40°-50°	1973.8	20.1
50°-60°	1521.3	15.5
60°-70°	903.1	9.2
70°-80°	402.1	4.1
80°-90°	78.5	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°	2974.0	30.3
0°-40°	4939.1	50.3
0°-60°	8434.2	85.9
0°-90°	9818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3690	3690	3690	3690	3690	
5°	3688	3689	3688	3684	3688	351
15°	3632	3632	3627	3621	3624	1027
25°	3482	3481	3465	3449	3445	1606
35°	3178	3173	3151	3124	3112	1985
45°	2624	2617	2576	2533	2509	2014
55°	1794	1759	1687	1636	1618	1604
65°	968	926	896	862	857	967
75°	387	379	374	361	358	419
85°	63	60	61	58	61	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3689.7	3689.7	3689.7	3689.7	3689.7
2.5°	3691.7	3690.7	3690.7	3686.8	3694.6
5°	3687.8	3688.8	3687.8	3683.9	3687.8
7.5°	3680.0	3680.9	3679.0	3675.1	3679.0
10°	3670.2	3670.2	3666.3	3664.3	3667.2
12.5°	3653.5	3653.5	3649.6	3646.7	3649.6
15°	3632.0	3632.0	3627.1	3621.3	3624.2
17.5°	3605.6	3605.6	3597.8	3590.0	3591.9
20°	3573.4	3572.4	3561.6	3550.9	3551.8
22.5°	3532.3	3531.3	3517.6	3504.9	3501.0
25°	3482.4	3481.4	3464.8	3449.2	3445.2
27.5°	3424.7	3420.8	3402.2	3384.6	3380.7
30°	3356.3	3353.3	3328.9	3311.3	3303.4
32.5°	3277.0	3269.2	3246.7	3225.2	3214.5
35°	3178.3	3173.4	3150.9	3124.5	3111.8
37.5°	3066.8	3061.9	3037.5	3008.1	2993.4
40°	2937.7	2933.8	2903.5	2873.2	2854.6
42.5°	2789.1	2786.1	2753.9	2711.8	2692.2
45°	2623.8	2616.9	2575.9	2532.8	2509.4
47.5°	2439.9	2428.2	2378.3	2337.3	2311.8
50°	2236.5	2220.9	2167.1	2114.3	2087.9
52.5°	2016.5	1989.1	1933.4	1872.7	1847.3
55°	1793.5	1759.3	1686.9	1636.1	1617.5
57.5°	1575.4	1525.6	1457.1	1420.9	1402.4
60°	1361.3	1306.5	1252.7	1217.5	1204.8
62.5°	1156.9	1110.9	1065.0	1029.8	1021.9
65°	968.2	926.1	895.8	861.6	856.7
67.5°	792.1	772.6	745.2	715.8	711.9
70°	638.6	630.8	606.3	588.7	581.9
72.5°	509.5	501.7	484.1	471.4	469.4
75°	387.3	379.4	373.6	360.9	357.9
77.5°	275.8	276.8	271.9	265.0	267.0
80°	199.5	187.8	183.9	179.9	179.0
82.5°	122.2	115.4	112.5	111.5	113.4
85°	62.6	59.7	60.6	57.7	60.6
87.5°	21.5	21.5	22.5	21.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)