

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: P412935

Luminaire Tested: **24PD-85-PP3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412935
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-85-PP3-L935
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

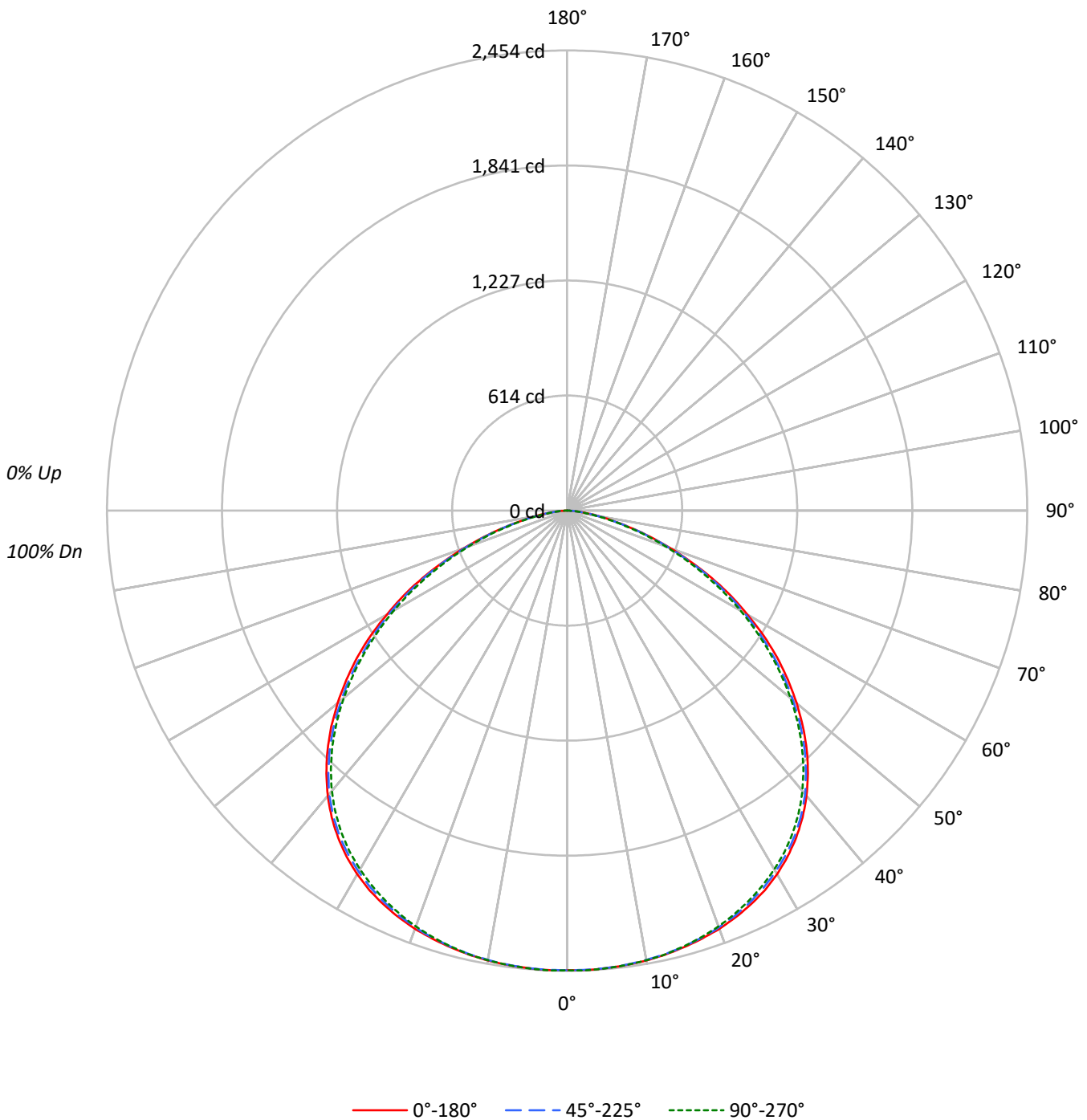
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7134.0 lumens
Efficiency: N/A
Efficacy: 110.6 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): 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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60					60			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52					52			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3299	3299	3299
5°	3308	3307	3309
10°	3328	3324	3327
15°	3358	3353	3351
20°	3398	3387	3379
25°	3441	3423	3407
30°	3479	3455	3433
35°	3498	3477	3445
40°	3489	3467	3429
45°	3439	3405	3367
50°	3344	3291	3256
55°	3206	3129	3089
60°	2987	2935	2876
65°	2708	2653	2576
70°	2311	2269	2196
75°	1805	1786	1701
80°	1331	1276	1204
85°	803	803	749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	3.3
10°-20°	680.7	9.5
20°-30°	1063.9	14.9
30°-40°	1322.2	18.5
40°-50°	1377.6	19.3
50°-60°	1195.4	16.8
60°-70°	822.0	11.5
70°-80°	370.9	5.2
80°-90°	68.0	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°	1977.8	27.7
0°-40°	3300.0	46.3
0°-60°	5873.1	82.3
0°-90°	7134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2452	2452	2452	2452	2452	
5°	2449	2450	2448	2446	2450	233
15°	2410	2410	2407	2405	2405	682
25°	2318	2317	2306	2296	2295	1069
35°	2130	2130	2117	2105	2097	1331
45°	1807	1808	1789	1776	1770	1391
55°	1367	1359	1334	1318	1317	1218
65°	850	847	833	813	809	839
75°	347	349	344	334	327	378
85°	52	51	52	51	48	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2451.7	2451.7	2451.7	2451.7	2451.7
2.5°	2452.5	2452.5	2451.0	2448.9	2453.9
5°	2448.9	2449.6	2448.2	2446.0	2449.6
7.5°	2443.9	2444.6	2442.5	2440.3	2443.2
10°	2436.1	2435.4	2433.2	2431.8	2435.4
12.5°	2424.7	2423.9	2421.8	2420.4	2423.2
15°	2410.4	2410.4	2406.8	2404.7	2405.4
17.5°	2393.3	2393.3	2388.3	2383.3	2384.7
20°	2373.3	2372.6	2365.5	2360.5	2359.8
22.5°	2348.4	2348.4	2338.4	2332.0	2329.8
25°	2317.7	2317.0	2305.6	2296.3	2294.9
27.5°	2282.8	2281.4	2267.8	2258.5	2255.0
30°	2239.3	2237.9	2223.6	2213.6	2209.4
32.5°	2188.0	2190.1	2173.7	2162.3	2158.0
35°	2129.5	2129.5	2116.7	2104.6	2097.4
37.5°	2062.5	2062.5	2050.4	2038.3	2029.7
40°	1986.2	1986.9	1974.1	1959.1	1952.0
42.5°	1900.7	1902.1	1885.0	1872.9	1865.0
45°	1807.3	1808.0	1789.4	1775.9	1769.5
47.5°	1706.0	1704.6	1683.9	1672.5	1666.1
50°	1597.7	1594.8	1572.0	1561.3	1555.6
52.5°	1484.3	1478.6	1458.6	1443.0	1438.0
55°	1366.7	1358.8	1333.9	1318.2	1316.8
57.5°	1244.1	1234.8	1214.1	1199.1	1193.4
60°	1110.0	1107.9	1090.8	1073.0	1068.7
62.5°	984.5	978.1	963.2	941.8	939.6
65°	850.5	847.0	833.4	813.4	809.2
67.5°	712.2	715.8	704.4	686.5	680.8
70°	587.4	589.6	576.8	560.4	558.2
72.5°	462.0	465.5	454.8	444.2	442.0
75°	347.2	348.6	343.6	334.4	327.2
77.5°	246.7	251.7	246.0	239.5	233.8
80°	171.8	164.0	164.7	161.8	155.4
82.5°	103.4	99.8	99.1	96.2	93.4
85°	52.0	51.3	52.0	51.3	48.5
87.5°	17.1	18.5	19.2	19.2	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)