

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: P413245

Luminaire Tested: **24PD-70-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-70-PC3-L835
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

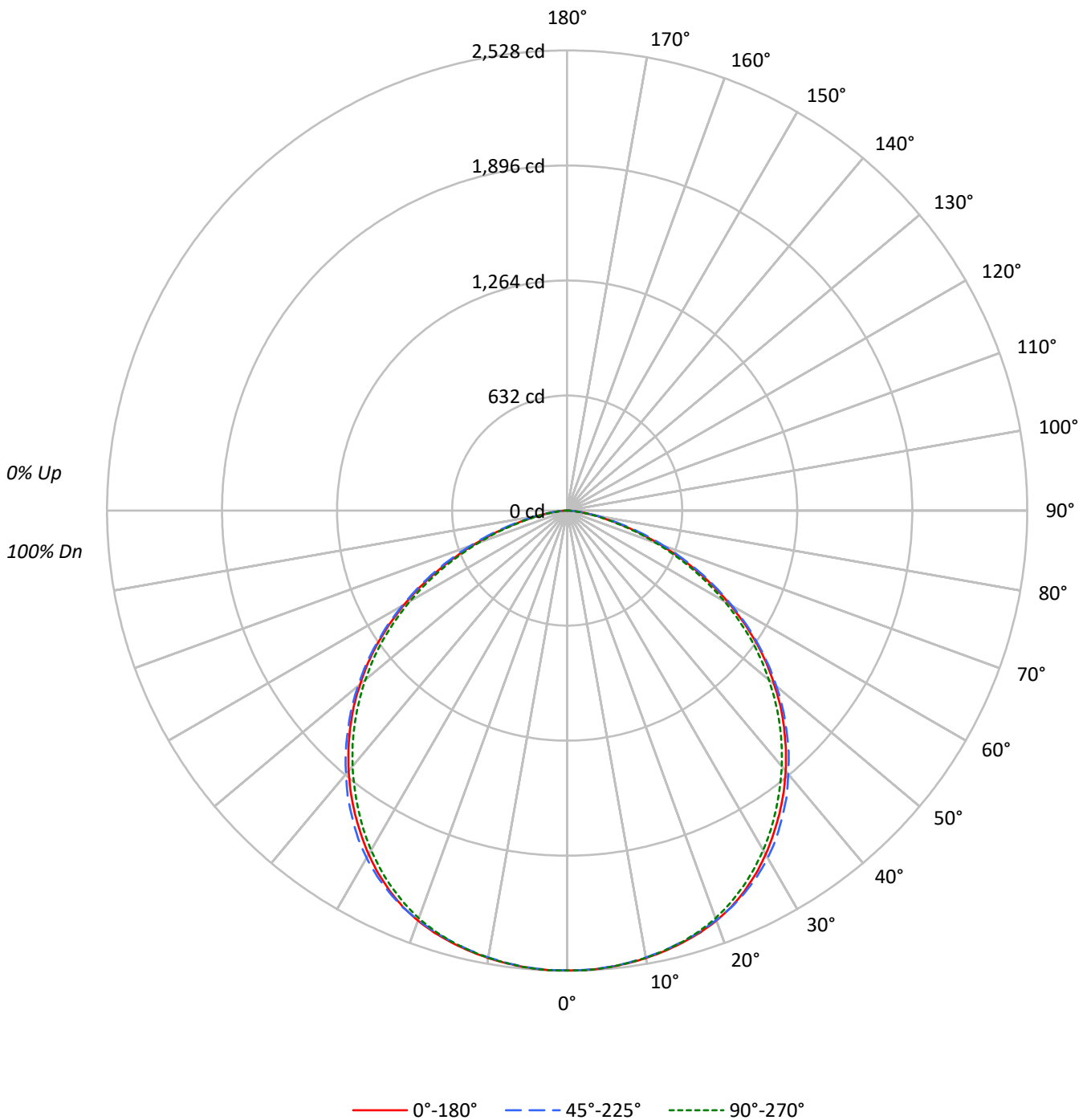
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6905.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3399	3399	3399
5°	3403	3402	3404
10°	3410	3406	3408
15°	3421	3415	3416
20°	3433	3428	3413
25°	3423	3436	3388
30°	3389	3425	3346
35°	3339	3381	3289
40°	3280	3320	3221
45°	3206	3241	3140
50°	3107	3142	3031
55°	2979	3006	2891
60°	2781	2813	2685
65°	2507	2569	2408
70°	2128	2222	2043
75°	1648	1768	1572
80°	1226	1279	1112
85°	756	810	702



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	3.5
10°-20°	692.8	10.0
20°-30°	1060.9	15.4
30°-40°	1276.3	18.5
40°-50°	1301.5	18.8
50°-60°	1128.3	16.3
60°-70°	782.2	11.3
70°-80°	357.3	5.2
80°-90°	66.0	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°	1993.4	28.9
0°-40°	3269.7	47.4
0°-60°	5699.5	82.5
0°-90°	6905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2526	2526	2526	2526	2526	
5°	2520	2520	2518	2517	2521	240
15°	2456	2456	2451	2449	2452	694
25°	2306	2312	2314	2294	2282	1062
35°	2033	2055	2059	2032	2002	1271
45°	1685	1706	1703	1680	1650	1299
55°	1270	1278	1281	1250	1232	1132
65°	787	804	807	780	756	778
75°	317	334	340	329	302	347
85°	49	50	52	50	46	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2526.2	2526.2	2526.2	2526.2	2526.2
2.5°	2526.2	2526.2	2524.8	2523.4	2527.6
5°	2519.9	2519.9	2518.5	2517.1	2520.6
7.5°	2510.1	2509.4	2508.0	2506.6	2508.7
10°	2496.1	2495.4	2492.6	2491.9	2494.7
12.5°	2478.6	2477.9	2473.7	2473.7	2475.8
15°	2456.2	2455.5	2451.3	2449.2	2452.0
17.5°	2431.0	2430.3	2425.4	2419.8	2421.2
20°	2397.4	2397.4	2393.9	2385.5	2383.4
22.5°	2356.9	2359.0	2359.0	2342.9	2336.6
25°	2305.8	2312.1	2314.2	2293.9	2282.0
27.5°	2247.7	2257.5	2263.1	2237.2	2221.8
30°	2181.2	2197.3	2204.3	2176.3	2153.9
32.5°	2108.4	2128.7	2137.1	2109.8	2081.1
35°	2032.9	2054.6	2058.7	2032.2	2002.1
37.5°	1952.4	1974.8	1980.4	1956.6	1919.5
40°	1867.7	1890.1	1890.1	1870.5	1834.1
42.5°	1778.1	1801.9	1801.2	1777.4	1744.5
45°	1685.1	1706.1	1703.3	1680.2	1650.1
47.5°	1589.2	1602.5	1606.0	1578.7	1550.0
50°	1484.2	1497.5	1501.0	1470.2	1447.8
52.5°	1380.7	1389.1	1394.0	1358.3	1342.2
55°	1270.1	1277.8	1281.3	1249.8	1232.3
57.5°	1153.2	1163.0	1167.2	1135.7	1116.1
60°	1033.6	1044.1	1045.5	1016.1	997.9
62.5°	911.8	925.8	928.6	899.2	877.5
65°	787.3	804.0	806.8	779.6	756.5
67.5°	662.7	685.1	685.8	663.4	636.1
70°	540.9	565.4	564.7	545.8	519.2
72.5°	424.8	447.2	452.1	434.6	408.7
75°	317.0	334.5	340.1	328.9	302.3
77.5°	225.3	241.4	246.3	235.8	216.2
80°	158.2	158.8	165.1	156.8	143.5
82.5°	98.0	96.6	98.7	95.2	87.5
85°	49.0	50.4	52.5	49.7	45.5
87.5°	16.8	17.5	18.9	18.9	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)