

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: P412903

Luminaire Tested: **24PD-70-PP3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412903
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-70-PP3-L835
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

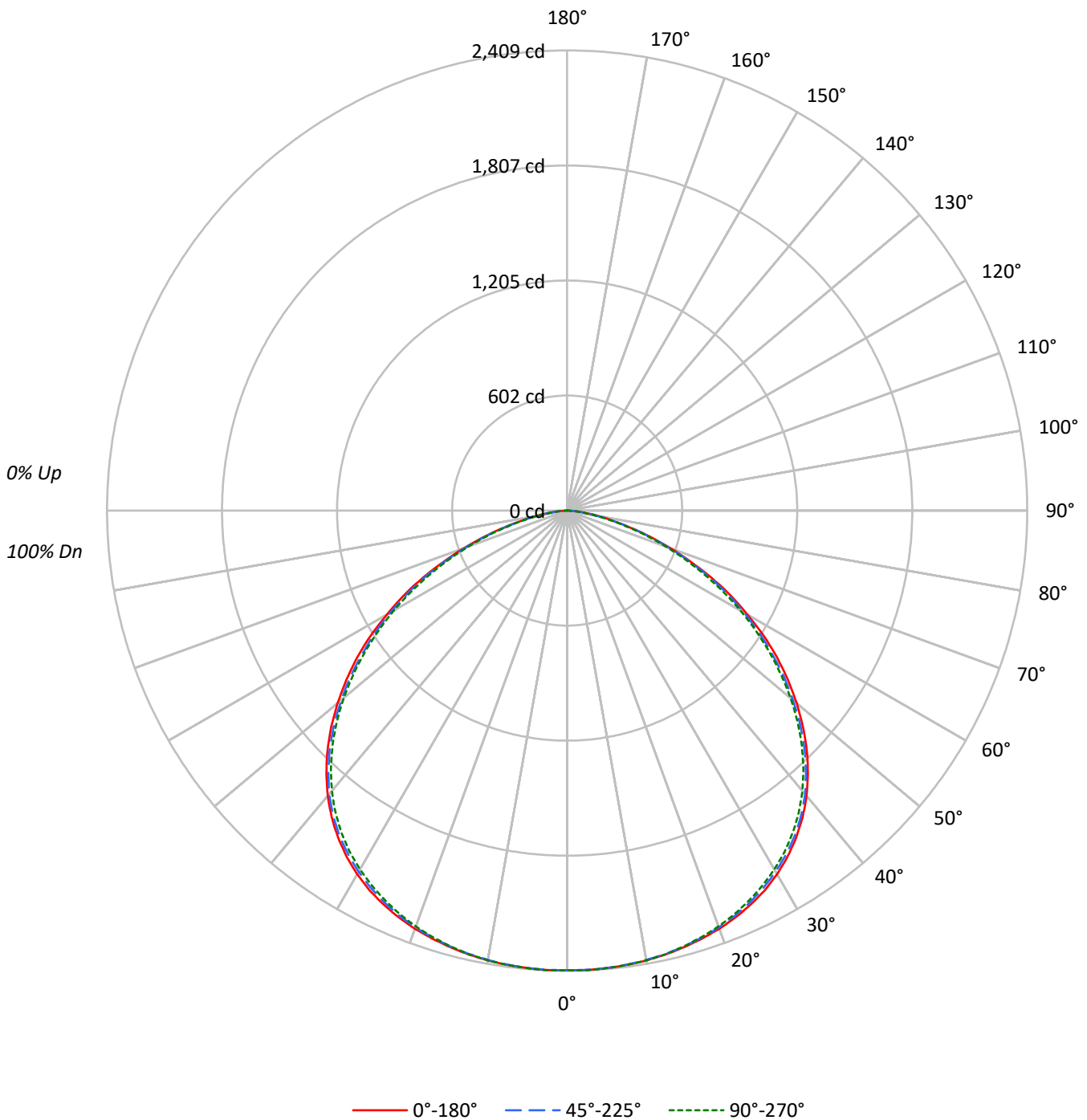
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7003.0 lumens
Efficiency: N/A
Efficacy: 133.9 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): 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	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°	3238	3238	3238
5°	3247	3246	3248
10°	3267	3263	3266
15°	3296	3291	3289
20°	3336	3325	3317
25°	3378	3360	3344
30°	3415	3391	3370
35°	3434	3413	3382
40°	3424	3404	3365
45°	3376	3342	3305
50°	3283	3230	3196
55°	3147	3072	3032
60°	2932	2881	2823
65°	2658	2605	2529
70°	2269	2227	2156
75°	1772	1753	1670
80°	1307	1253	1182
85°	789	789	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.0	3.3
10°-20°	668.1	9.5
20°-30°	1044.4	14.9
30°-40°	1297.9	18.5
40°-50°	1352.3	19.3
50°-60°	1173.5	16.8
60°-70°	806.9	11.5
70°-80°	364.1	5.2
80°-90°	66.7	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°	1941.5	27.7
0°-40°	3239.4	46.3
0°-60°	5765.2	82.3
0°-90°	7003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2407	2407	2407	2407	2407	
5°	2404	2405	2403	2401	2405	229
15°	2366	2366	2363	2360	2361	669
25°	2275	2274	2263	2254	2253	1050
35°	2090	2090	2078	2066	2059	1306
45°	1774	1775	1757	1743	1737	1365
55°	1342	1334	1309	1294	1293	1196
65°	835	831	818	798	794	824
75°	341	342	337	328	321	371
85°	51	50	51	50	48	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2406.7	2406.7	2406.7	2406.7	2406.7
2.5°	2407.4	2407.4	2406.0	2403.9	2408.8
5°	2403.9	2404.6	2403.2	2401.1	2404.6
7.5°	2399.0	2399.7	2397.6	2395.5	2398.3
10°	2391.3	2390.6	2388.5	2387.1	2390.6
12.5°	2380.1	2379.4	2377.3	2375.9	2378.7
15°	2366.1	2366.1	2362.6	2360.5	2361.2
17.5°	2349.3	2349.3	2344.4	2339.5	2340.9
20°	2329.7	2329.0	2322.0	2317.1	2316.4
22.5°	2305.3	2305.3	2295.5	2289.2	2287.1
25°	2275.2	2274.5	2263.3	2254.2	2252.8
27.5°	2240.9	2239.5	2226.2	2217.1	2213.6
30°	2198.2	2196.8	2182.8	2173.0	2168.8
32.5°	2147.8	2149.9	2133.8	2122.6	2118.4
35°	2090.4	2090.4	2077.8	2065.9	2058.9
37.5°	2024.6	2024.6	2012.7	2000.8	1992.4
40°	1949.7	1950.4	1937.8	1923.1	1916.1
42.5°	1865.8	1867.2	1850.4	1838.5	1830.8
45°	1774.1	1774.8	1756.6	1743.3	1737.0
47.5°	1674.7	1673.3	1653.0	1641.8	1635.5
50°	1568.3	1565.5	1543.1	1532.6	1527.0
52.5°	1457.1	1451.5	1431.9	1416.5	1411.6
55°	1341.6	1333.9	1309.4	1294.0	1292.6
57.5°	1221.2	1212.1	1191.8	1177.1	1171.5
60°	1089.6	1087.5	1070.7	1053.2	1049.1
62.5°	966.5	960.2	945.5	924.5	922.4
65°	834.9	831.4	818.1	798.5	794.3
67.5°	699.1	702.6	691.4	673.9	668.3
70°	576.7	578.8	566.2	550.1	548.0
72.5°	453.5	457.0	446.5	436.0	433.9
75°	340.8	342.2	337.3	328.2	321.2
77.5°	242.1	247.0	241.4	235.1	229.5
80°	168.7	161.0	161.7	158.9	152.6
82.5°	101.5	98.0	97.3	94.5	91.7
85°	51.1	50.4	51.1	50.4	47.6
87.5°	16.8	18.2	18.9	18.9	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)