

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: P412904

Luminaire Tested: **24PD-70-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412904
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-L840
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

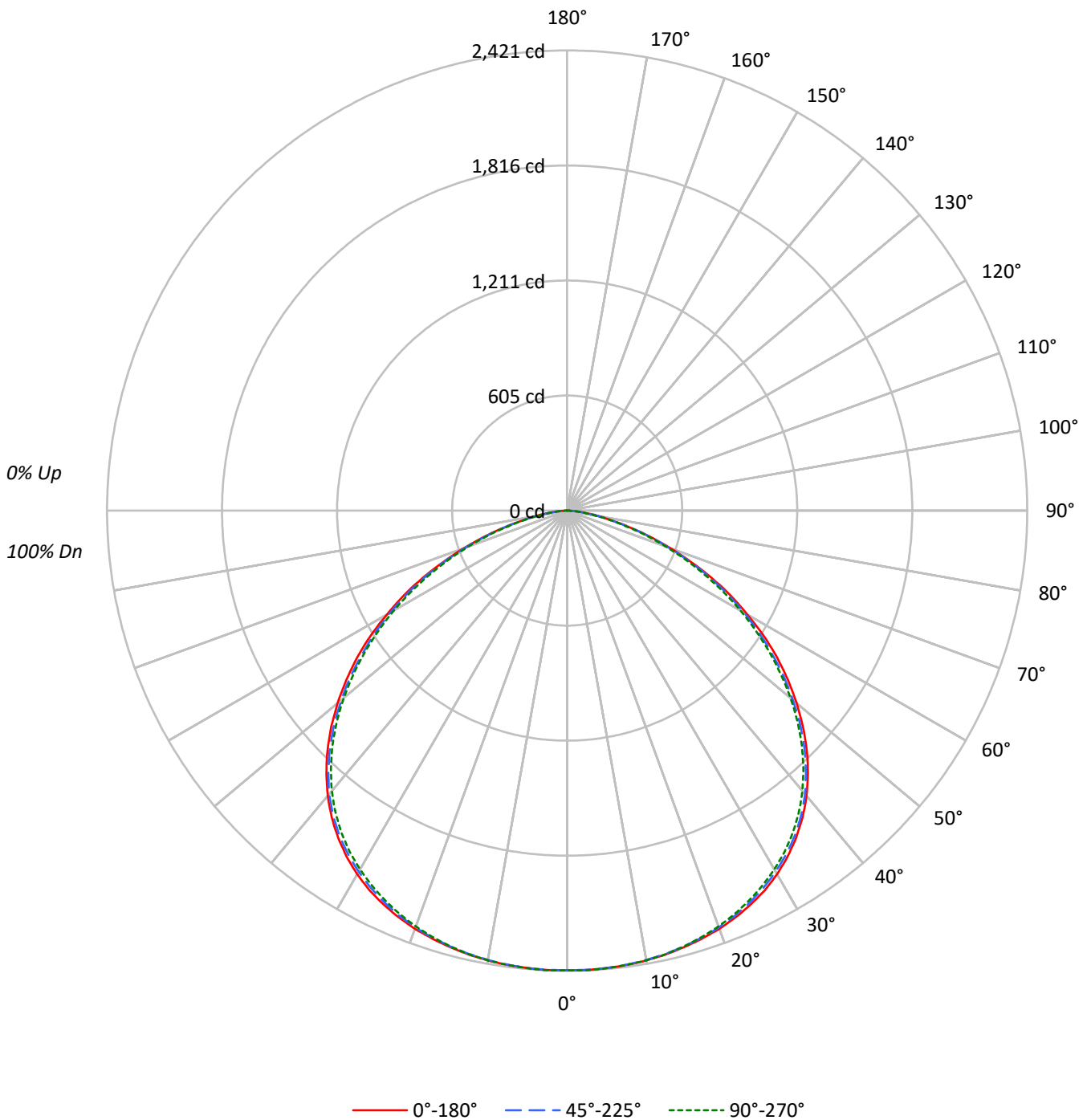
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7038.0 lumens
Efficiency: N/A
Efficacy: 134.6 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): 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	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°	3254	3254	3254
5°	3263	3262	3264
10°	3283	3280	3283
15°	3312	3307	3305
20°	3353	3341	3333
25°	3394	3377	3361
30°	3432	3408	3386
35°	3451	3430	3399
40°	3442	3421	3382
45°	3393	3359	3322
50°	3299	3246	3212
55°	3163	3087	3047
60°	2947	2896	2837
65°	2671	2618	2542
70°	2280	2238	2166
75°	1781	1762	1678
80°	1313	1259	1188
85°	792	792	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.1	3.3
10°-20°	671.5	9.5
20°-30°	1049.6	14.9
30°-40°	1304.4	18.5
40°-50°	1359.1	19.3
50°-60°	1179.3	16.8
60°-70°	810.9	11.5
70°-80°	366.0	5.2
80°-90°	67.1	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°	1951.2	27.7
0°-40°	3255.6	46.3
0°-60°	5794.1	82.3
0°-90°	7038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2419	2419	2419	2419	2419	
5°	2416	2417	2415	2413	2417	230
15°	2378	2378	2374	2372	2373	673
25°	2286	2286	2275	2265	2264	1055
35°	2101	2101	2088	2076	2069	1313
45°	1783	1784	1765	1752	1746	1372
55°	1348	1340	1316	1300	1299	1202
65°	839	836	822	802	798	828
75°	342	344	339	330	323	373
85°	51	51	51	51	48	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2418.8	2418.8	2418.8	2418.8	2418.8
2.5°	2419.5	2419.5	2418.1	2415.9	2420.9
5°	2415.9	2416.6	2415.2	2413.1	2416.6
7.5°	2411.0	2411.7	2409.6	2407.5	2410.3
10°	2403.3	2402.6	2400.5	2399.1	2402.6
12.5°	2392.0	2391.3	2389.2	2387.8	2390.6
15°	2378.0	2378.0	2374.4	2372.3	2373.0
17.5°	2361.1	2361.1	2356.2	2351.2	2352.6
20°	2341.4	2340.7	2333.7	2328.7	2328.0
22.5°	2316.8	2316.8	2306.9	2300.6	2298.5
25°	2286.5	2285.8	2274.6	2265.4	2264.0
27.5°	2252.1	2250.7	2237.3	2228.2	2224.6
30°	2209.2	2207.8	2193.7	2183.8	2179.6
32.5°	2158.5	2160.6	2144.5	2133.2	2129.0
35°	2100.8	2100.8	2088.2	2076.2	2069.2
37.5°	2034.7	2034.7	2022.8	2010.8	2002.4
40°	1959.5	1960.2	1947.5	1932.8	1925.7
42.5°	1875.1	1876.5	1859.6	1847.7	1839.9
45°	1782.9	1783.6	1765.4	1752.0	1745.7
47.5°	1683.1	1681.7	1661.3	1650.0	1643.7
50°	1576.2	1573.4	1550.8	1540.3	1534.7
52.5°	1464.3	1458.7	1439.0	1423.5	1418.6
55°	1348.3	1340.5	1315.9	1300.5	1299.1
57.5°	1227.3	1218.2	1197.8	1183.0	1177.4
60°	1095.1	1093.0	1076.1	1058.5	1054.3
62.5°	971.3	965.0	950.2	929.1	927.0
65°	839.1	835.6	822.2	802.5	798.3
67.5°	702.6	706.1	694.9	677.3	671.7
70°	579.5	581.7	569.0	552.8	550.7
72.5°	455.8	459.3	448.7	438.2	436.1
75°	342.5	343.9	339.0	329.9	322.8
77.5°	243.4	248.3	242.6	236.3	230.7
80°	169.5	161.8	162.5	159.7	153.3
82.5°	102.0	98.5	97.8	94.9	92.1
85°	51.3	50.6	51.3	50.6	47.8
87.5°	16.9	18.3	19.0	19.0	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)