

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: P412942

Luminaire Tested: **24PD-90-PP3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412942
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-90-PP3-L927
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

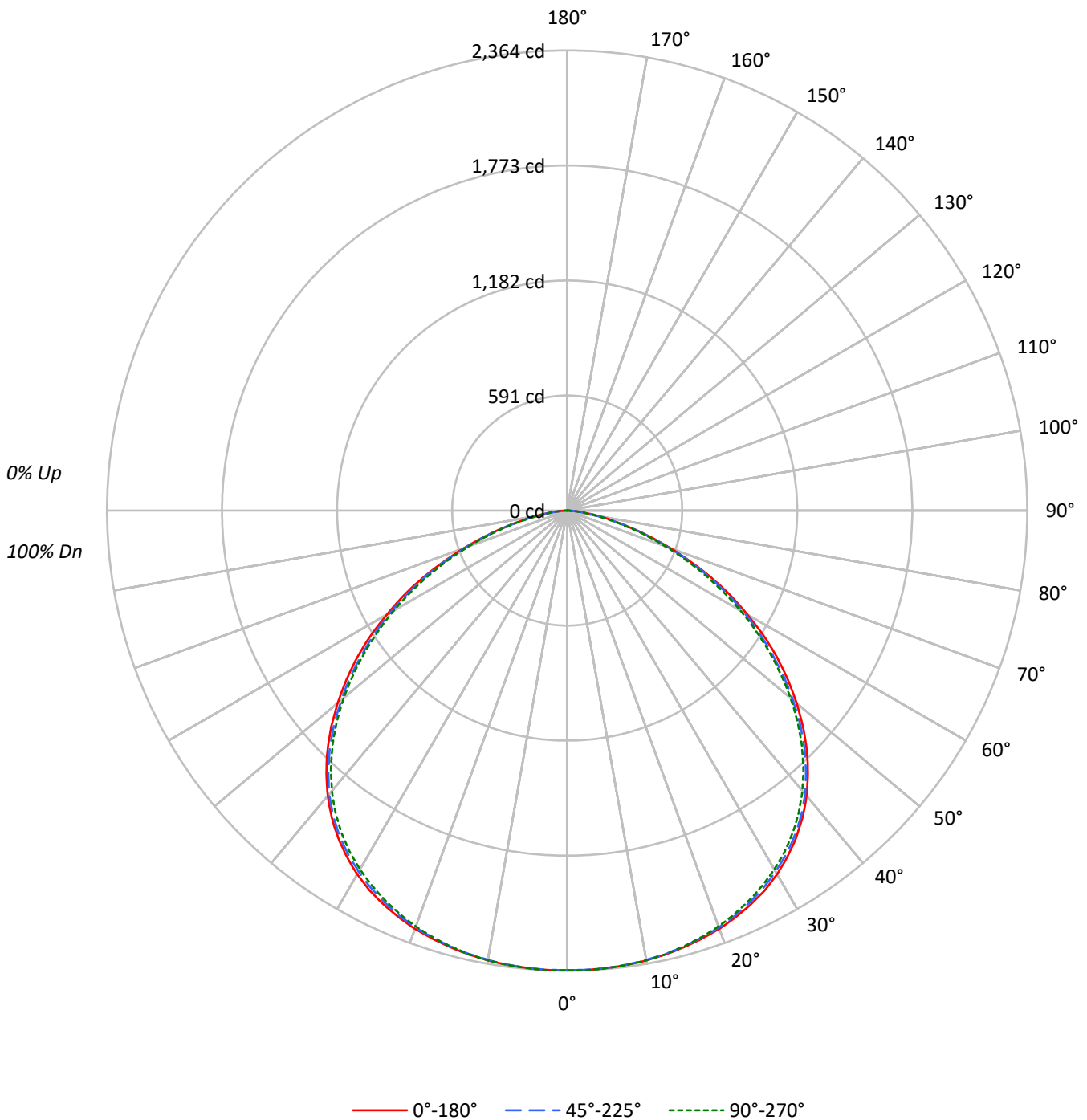
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6872.0 lumens
Efficiency: N/A
Efficacy: 100.0 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): 68.7
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°	3178	3178	3178
5°	3186	3185	3187
10°	3206	3202	3205
15°	3234	3229	3228
20°	3273	3263	3255
25°	3314	3297	3282
30°	3351	3328	3306
35°	3369	3349	3319
40°	3361	3340	3303
45°	3313	3280	3243
50°	3221	3170	3137
55°	3088	3014	2975
60°	2877	2827	2770
65°	2608	2556	2482
70°	2226	2186	2115
75°	1738	1721	1639
80°	1282	1229	1160
85°	773	773	721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.7	3.3
10°-20°	655.7	9.5
20°-30°	1024.8	14.9
30°-40°	1273.7	18.5
40°-50°	1327.1	19.3
50°-60°	1151.5	16.8
60°-70°	791.8	11.5
70°-80°	357.3	5.2
80°-90°	65.5	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°	1905.2	27.7
0°-40°	3178.8	46.3
0°-60°	5657.4	82.3
0°-90°	6872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6872.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2362	2362	2362	2362	2362	
5°	2359	2360	2358	2356	2360	225
15°	2322	2322	2318	2316	2317	657
25°	2233	2232	2221	2212	2211	1030
35°	2051	2051	2039	2027	2020	1282
45°	1741	1742	1724	1711	1704	1340
55°	1316	1309	1285	1270	1268	1173
65°	819	816	803	784	780	809
75°	334	336	331	322	315	364
85°	50	49	50	49	47	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2361.7	2361.7	2361.7	2361.7	2361.7
2.5°	2362.4	2362.4	2361.0	2359.0	2363.8
5°	2359.0	2359.6	2358.3	2356.2	2359.6
7.5°	2354.2	2354.8	2352.8	2350.7	2353.5
10°	2346.6	2345.9	2343.9	2342.5	2345.9
12.5°	2335.6	2334.9	2332.9	2331.5	2334.2
15°	2321.9	2321.9	2318.4	2316.4	2317.1
17.5°	2305.4	2305.4	2300.6	2295.8	2297.2
20°	2286.2	2285.5	2278.6	2273.8	2273.1
22.5°	2262.1	2262.1	2252.5	2246.3	2244.3
25°	2232.6	2231.9	2220.9	2212.0	2210.6
27.5°	2198.9	2197.6	2184.5	2175.6	2172.2
30°	2157.1	2155.7	2141.9	2132.3	2128.2
32.5°	2107.6	2109.7	2093.9	2082.9	2078.8
35°	2051.3	2051.3	2038.9	2027.3	2020.4
37.5°	1986.7	1986.7	1975.1	1963.4	1955.2
40°	1913.3	1914.0	1901.6	1887.2	1880.3
42.5°	1830.9	1832.2	1815.7	1804.1	1796.5
45°	1740.9	1741.6	1723.7	1710.7	1704.5
47.5°	1643.4	1642.0	1622.1	1611.1	1604.9
50°	1539.0	1536.2	1514.3	1504.0	1498.5
52.5°	1429.8	1424.3	1405.1	1390.0	1385.2
55°	1316.5	1308.9	1284.9	1269.8	1268.4
57.5°	1198.4	1189.4	1169.5	1155.1	1149.6
60°	1069.3	1067.2	1050.7	1033.5	1029.4
62.5°	948.4	942.2	927.8	907.2	905.1
65°	819.3	815.8	802.8	783.6	779.5
67.5°	686.1	689.5	678.5	661.3	655.8
70°	565.9	567.9	555.6	539.8	537.7
72.5°	445.0	448.4	438.1	427.8	425.8
75°	334.4	335.8	331.0	322.1	315.2
77.5°	237.6	242.4	236.9	230.7	225.3
80°	165.5	158.0	158.6	155.9	149.7
82.5°	99.6	96.1	95.5	92.7	90.0
85°	50.1	49.4	50.1	49.4	46.7
87.5°	16.5	17.9	18.5	18.5	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)