

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: P412926

Luminaire Tested: **24PD-80-PP3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412926
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-80-PP3-L935
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

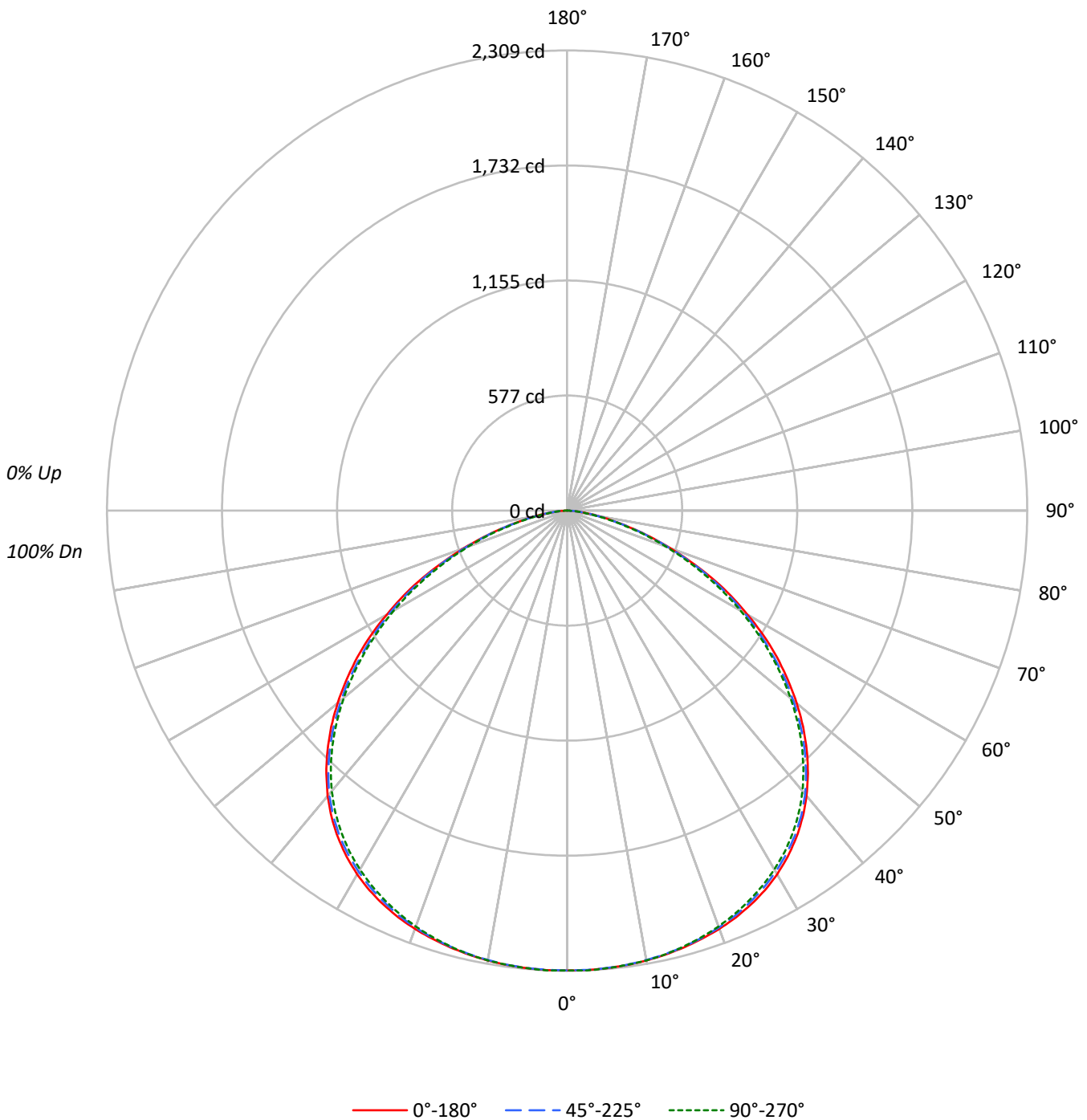
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6714.0 lumens
Efficiency: N/A
Efficacy: 111.3 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): 60.3
Input Voltage (V): NR
Input Current (A_{in}): 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°	3105	3105	3105
5°	3113	3112	3114
10°	3132	3129	3131
15°	3160	3155	3153
20°	3198	3188	3180
25°	3238	3221	3206
30°	3274	3251	3230
35°	3292	3272	3242
40°	3283	3263	3227
45°	3236	3205	3169
50°	3147	3097	3064
55°	3017	2945	2907
60°	2811	2763	2707
65°	2548	2497	2424
70°	2175	2135	2067
75°	1699	1681	1601
80°	1253	1201	1134
85°	756	756	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	3.3
10°-20°	640.6	9.5
20°-30°	1001.3	14.9
30°-40°	1244.4	18.5
40°-50°	1296.5	19.3
50°-60°	1125.1	16.8
60°-70°	773.6	11.5
70°-80°	349.1	5.2
80°-90°	64.0	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°	1861.4	27.7
0°-40°	3105.7	46.3
0°-60°	5527.3	82.3
0°-90°	6714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2307	2307	2307	2307	2307	
5°	2305	2305	2304	2302	2305	220
15°	2268	2268	2265	2263	2264	642
25°	2181	2181	2170	2161	2160	1006
35°	2004	2004	1992	1981	1974	1252
45°	1701	1702	1684	1671	1665	1309
55°	1286	1279	1255	1241	1239	1146
65°	800	797	784	766	762	790
75°	327	328	323	315	308	356
85°	49	48	49	48	46	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2307.4	2307.4	2307.4	2307.4	2307.4
2.5°	2308.1	2308.1	2306.7	2304.7	2309.4
5°	2304.7	2305.4	2304.1	2302.0	2305.4
7.5°	2300.0	2300.7	2298.7	2296.7	2299.4
10°	2292.6	2292.0	2290.0	2288.6	2292.0
12.5°	2281.9	2281.2	2279.2	2277.9	2280.6
15°	2268.5	2268.5	2265.1	2263.1	2263.8
17.5°	2252.4	2252.4	2247.7	2243.0	2244.3
20°	2233.6	2232.9	2226.2	2221.5	2220.9
22.5°	2210.1	2210.1	2200.7	2194.7	2192.7
25°	2181.3	2180.6	2169.9	2161.1	2159.8
27.5°	2148.4	2147.0	2134.3	2125.6	2122.2
30°	2107.5	2106.1	2092.7	2083.3	2079.3
32.5°	2059.2	2061.2	2045.7	2035.0	2031.0
35°	2004.1	2004.1	1992.1	1980.7	1973.9
37.5°	1941.1	1941.1	1929.7	1918.3	1910.2
40°	1869.3	1869.9	1857.9	1843.8	1837.1
42.5°	1788.8	1790.1	1774.0	1762.6	1755.2
45°	1700.9	1701.5	1684.1	1671.3	1665.3
47.5°	1605.6	1604.2	1584.8	1574.1	1568.0
50°	1503.6	1500.9	1479.5	1469.4	1464.0
52.5°	1396.9	1391.6	1372.8	1358.0	1353.3
55°	1286.2	1278.8	1255.4	1240.6	1239.2
57.5°	1170.8	1162.1	1142.6	1128.5	1123.2
60°	1044.7	1042.7	1026.6	1009.8	1005.8
62.5°	926.6	920.5	906.5	886.3	884.3
65°	800.4	797.1	784.3	765.6	761.5
67.5°	670.3	673.6	662.9	646.1	640.8
70°	552.9	554.9	542.8	527.4	525.4
72.5°	434.8	438.1	428.1	418.0	416.0
75°	326.8	328.1	323.4	314.7	308.0
77.5°	232.1	236.8	231.5	225.4	220.1
80°	161.7	154.3	155.0	152.3	146.3
82.5°	97.3	93.9	93.3	90.6	87.9
85°	49.0	48.3	49.0	48.3	45.6
87.5°	16.1	17.4	18.1	18.1	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)