

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: P412927

Luminaire Tested: **24PD-80-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412927
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-L940
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

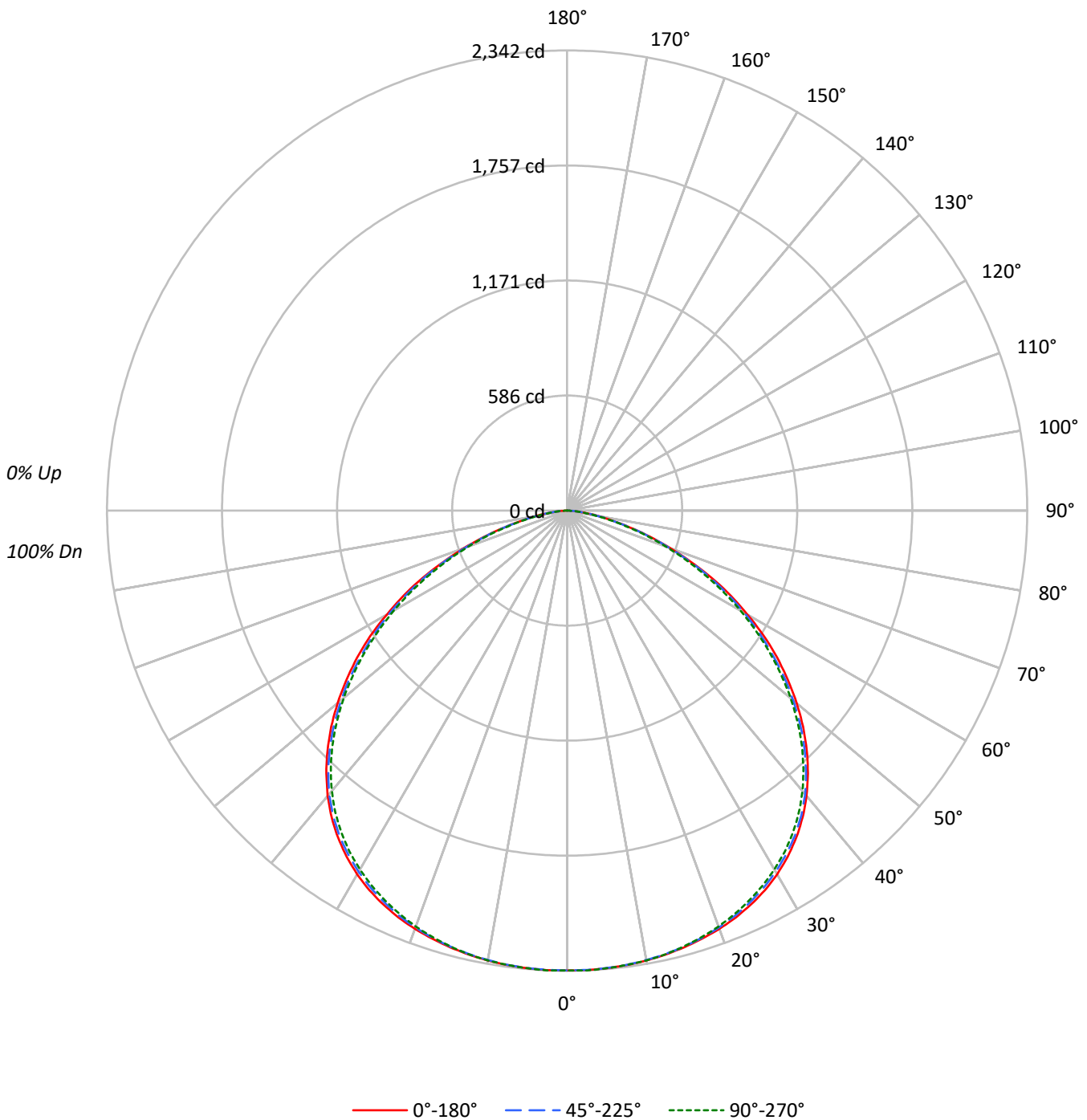
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6810.0 lumens
Efficiency: N/A
Efficacy: 112.9 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): 60.3
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°	3149	3149	3149
5°	3157	3156	3158
10°	3177	3173	3176
15°	3205	3200	3198
20°	3244	3233	3225
25°	3285	3267	3252
30°	3321	3298	3277
35°	3339	3319	3289
40°	3330	3310	3273
45°	3283	3250	3214
50°	3192	3141	3108
55°	3060	2987	2949
60°	2851	2802	2745
65°	2585	2533	2459
70°	2206	2166	2096
75°	1723	1705	1624
80°	1271	1218	1150
85°	767	767	715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	3.3
10°-20°	649.7	9.5
20°-30°	1015.6	14.9
30°-40°	1262.2	18.5
40°-50°	1315.1	19.3
50°-60°	1141.1	16.8
60°-70°	784.7	11.5
70°-80°	354.1	5.2
80°-90°	64.9	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°	1888.0	27.7
0°-40°	3150.1	46.3
0°-60°	5606.4	82.3
0°-90°	6810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2340	2340	2340	2340	2340	
5°	2338	2338	2337	2335	2338	223
15°	2301	2301	2298	2296	2296	651
25°	2212	2212	2201	2192	2191	1021
35°	2033	2033	2020	2009	2002	1270
45°	1725	1726	1708	1695	1689	1328
55°	1305	1297	1273	1258	1257	1163
65°	812	808	796	776	772	801
75°	331	333	328	319	312	361
85°	50	49	50	49	46	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2340.4	2340.4	2340.4	2340.4	2340.4
2.5°	2341.1	2341.1	2339.7	2337.7	2342.4
5°	2337.7	2338.4	2337.0	2335.0	2338.4
7.5°	2332.9	2333.6	2331.6	2329.5	2332.2
10°	2325.4	2324.7	2322.7	2321.3	2324.7
12.5°	2314.5	2313.9	2311.8	2310.5	2313.2
15°	2300.9	2300.9	2297.5	2295.5	2296.2
17.5°	2284.6	2284.6	2279.8	2275.1	2276.4
20°	2265.5	2264.9	2258.1	2253.3	2252.6
22.5°	2241.7	2241.7	2232.2	2226.1	2224.0
25°	2212.5	2211.8	2200.9	2192.0	2190.7
27.5°	2179.1	2177.7	2164.8	2156.0	2152.6
30°	2137.6	2136.2	2122.6	2113.1	2109.0
32.5°	2088.6	2090.6	2075.0	2064.1	2060.0
35°	2032.8	2032.8	2020.5	2009.0	2002.2
37.5°	1968.8	1968.8	1957.3	1945.7	1937.5
40°	1896.0	1896.7	1884.4	1870.1	1863.3
42.5°	1814.3	1815.7	1799.4	1787.8	1780.3
45°	1725.2	1725.9	1708.2	1695.2	1689.1
47.5°	1628.5	1627.2	1607.5	1596.6	1590.4
50°	1525.1	1522.4	1500.6	1490.4	1485.0
52.5°	1416.9	1411.5	1392.4	1377.4	1372.7
55°	1304.6	1297.1	1273.3	1258.3	1257.0
57.5°	1187.6	1178.7	1159.0	1144.7	1139.2
60°	1059.6	1057.6	1041.2	1024.2	1020.1
62.5°	939.8	933.7	919.4	899.0	897.0
65°	811.9	808.5	795.6	776.5	772.4
67.5°	679.9	683.3	672.4	655.4	649.9
70°	560.8	562.8	550.6	534.9	532.9
72.5°	441.0	444.4	434.2	424.0	421.9
75°	331.4	332.8	328.0	319.2	312.4
77.5°	235.5	240.2	234.8	228.7	223.2
80°	164.0	156.5	157.2	154.5	148.4
82.5°	98.7	95.3	94.6	91.9	89.2
85°	49.7	49.0	49.7	49.0	46.3
87.5°	16.3	17.7	18.4	18.4	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)