

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: P412905

Luminaire Tested: **24PD-70-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412905
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-L850
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

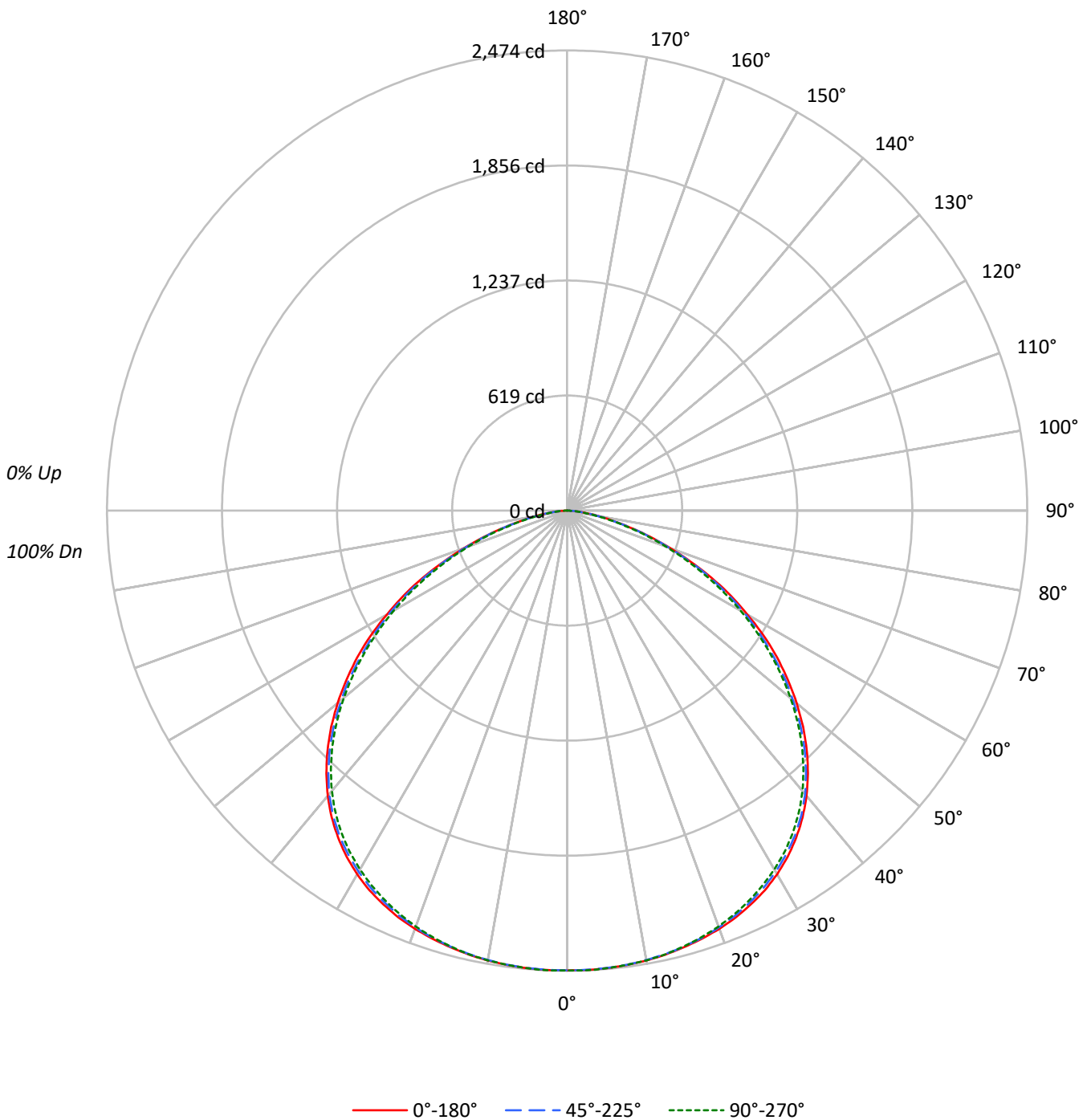
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7193.0 lumens
Efficiency: N/A
Efficacy: 137.5 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°	3326	3326	3326
5°	3335	3334	3336
10°	3356	3352	3355
15°	3385	3380	3378
20°	3426	3415	3407
25°	3469	3451	3435
30°	3508	3483	3461
35°	3527	3506	3474
40°	3517	3496	3457
45°	3467	3433	3395
50°	3372	3318	3283
55°	3232	3155	3115
60°	3012	2960	2900
65°	2730	2675	2598
70°	2330	2288	2214
75°	1820	1801	1715
80°	1342	1286	1214
85°	810	810	755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	3.3
10°-20°	686.3	9.5
20°-30°	1072.7	14.9
30°-40°	1333.2	18.5
40°-50°	1389.0	19.3
50°-60°	1205.3	16.8
60°-70°	828.8	11.5
70°-80°	374.0	5.2
80°-90°	68.5	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°	1994.2	27.7
0°-40°	3327.3	46.3
0°-60°	5921.7	82.3
0°-90°	7193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2469	2470	2468	2466	2470	235
15°	2430	2430	2427	2425	2425	687
25°	2337	2336	2325	2315	2314	1078
35°	2147	2147	2134	2122	2115	1342
45°	1822	1823	1804	1791	1784	1403
55°	1378	1370	1345	1329	1328	1228
65°	858	854	840	820	816	846
75°	350	352	346	337	330	381
85°	52	52	52	52	49	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2472.0	2472.0	2472.0	2472.0	2472.0
2.5°	2472.7	2472.7	2471.3	2469.1	2474.2
5°	2469.1	2469.9	2468.4	2466.3	2469.9
7.5°	2464.1	2464.8	2462.7	2460.5	2463.4
10°	2456.2	2455.5	2453.3	2451.9	2455.5
12.5°	2444.7	2444.0	2441.8	2440.4	2443.3
15°	2430.3	2430.3	2426.7	2424.6	2425.3
17.5°	2413.1	2413.1	2408.0	2403.0	2404.5
20°	2393.0	2392.2	2385.0	2380.0	2379.3
22.5°	2367.8	2367.8	2357.7	2351.3	2349.1
25°	2336.9	2336.2	2324.7	2315.3	2313.9
27.5°	2301.7	2300.2	2286.6	2277.2	2273.6
30°	2257.8	2256.4	2242.0	2231.9	2227.6
32.5°	2206.1	2208.2	2191.7	2180.2	2175.9
35°	2147.1	2147.1	2134.2	2122.0	2114.8
37.5°	2079.5	2079.5	2067.3	2055.1	2046.5
40°	2002.6	2003.4	1990.4	1975.3	1968.1
42.5°	1916.4	1917.8	1900.6	1888.3	1880.4
45°	1822.2	1822.9	1804.2	1790.6	1784.1
47.5°	1720.1	1718.7	1697.9	1686.4	1679.9
50°	1610.9	1608.0	1585.0	1574.2	1568.5
52.5°	1496.6	1490.8	1470.7	1454.9	1449.9
55°	1378.0	1370.1	1344.9	1329.1	1327.7
57.5°	1254.3	1245.0	1224.2	1209.1	1203.3
60°	1119.2	1117.0	1099.8	1081.8	1077.5
62.5°	992.7	986.2	971.1	949.6	947.4
65°	857.6	854.0	840.3	820.2	815.9
67.5°	718.1	721.7	710.2	692.2	686.5
70°	592.3	594.5	581.5	565.0	562.8
72.5°	465.8	469.4	458.6	447.8	445.7
75°	350.1	351.5	346.5	337.1	329.9
77.5°	248.7	253.7	248.0	241.5	235.8
80°	173.2	165.3	166.0	163.2	156.7
82.5°	104.2	100.6	99.9	97.0	94.2
85°	52.5	51.8	52.5	51.8	48.9
87.5°	17.3	18.7	19.4	19.4	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)