

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: P412911

Luminaire Tested: **24PD-75-PP3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412911
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-75-PP3-L830
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

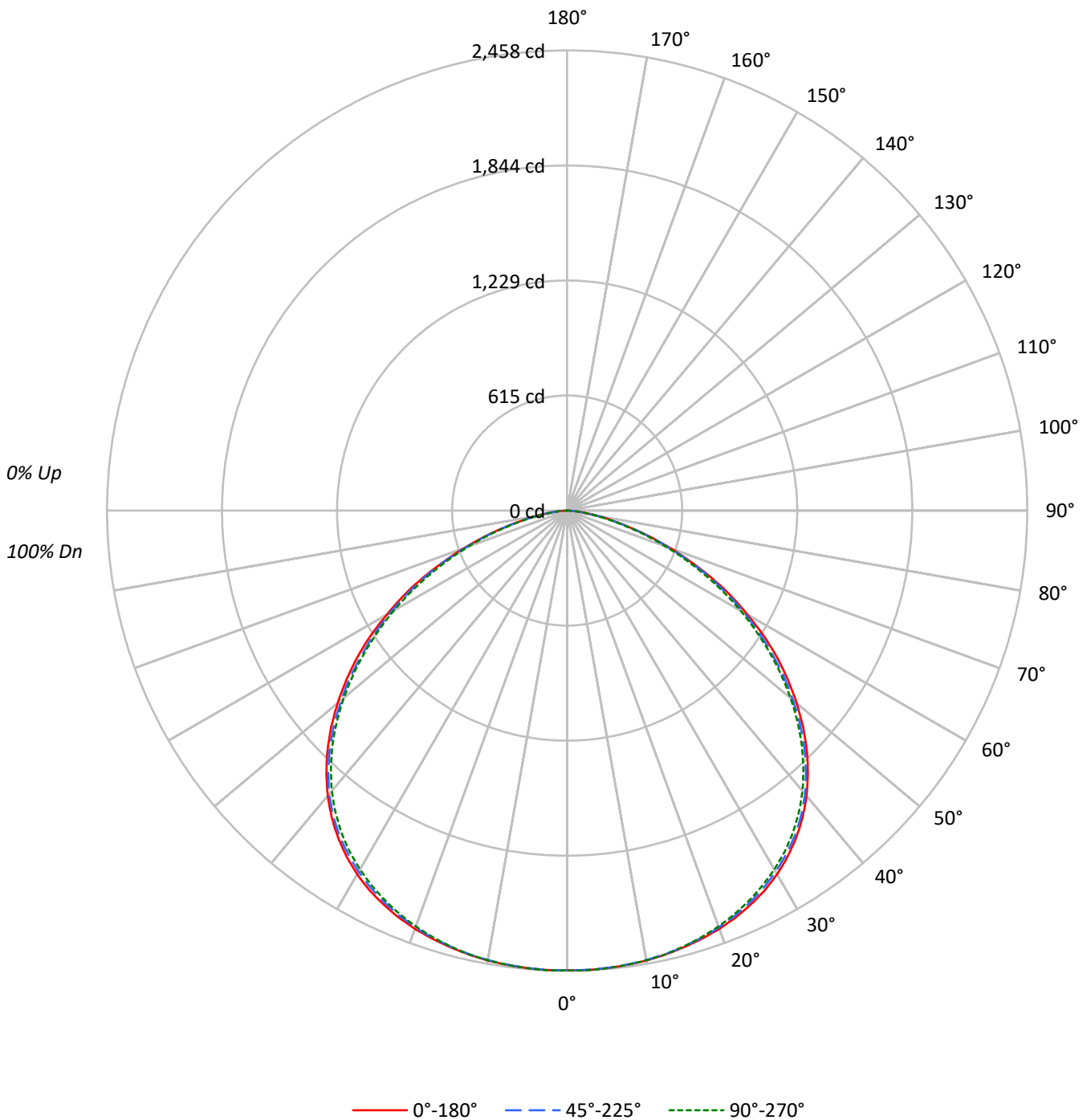
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7146.0 lumens
Efficiency: N/A
Efficacy: 126.9 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): 56.3
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

TEST NUMBER: P412911
CATALOG NUMBER: 24PD-75-PP3-L830

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°	3304	3304	3304
5°	3313	3312	3314
10°	3334	3330	3333
15°	3363	3358	3356
20°	3404	3393	3384
25°	3447	3429	3413
30°	3485	3461	3438
35°	3504	3483	3451
40°	3494	3473	3434
45°	3445	3411	3373
50°	3350	3296	3262
55°	3211	3134	3094
60°	2992	2940	2881
65°	2712	2658	2580
70°	2315	2273	2200
75°	1808	1789	1704
80°	1333	1278	1206
85°	804	804	750



TEST NUMBER: P412911

CATALOG NUMBER: 24PD-75-PP3-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	3.3
10°-20°	681.8	9.5
20°-30°	1065.7	14.9
30°-40°	1324.4	18.5
40°-50°	1380.0	19.3
50°-60°	1197.4	16.8
60°-70°	823.4	11.5
70°-80°	371.6	5.2
80°-90°	68.1	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°	1981.1	27.7
0°-40°	3305.6	46.3
0°-60°	5883.0	82.3
0°-90°	7146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2456	2456	2456	2456	2456	
5°	2453	2454	2452	2450	2454	234
15°	2414	2414	2411	2409	2410	683
25°	2322	2321	2310	2300	2299	1071
35°	2133	2133	2120	2108	2101	1333
45°	1810	1811	1792	1779	1772	1393
55°	1369	1361	1336	1320	1319	1220
65°	852	848	835	815	810	841
75°	348	349	344	335	328	379
85°	52	51	52	51	49	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2455.9	2455.9	2455.9	2455.9	2455.9
2.5°	2456.6	2456.6	2455.2	2453.0	2458.0
5°	2453.0	2453.7	2452.3	2450.2	2453.7
7.5°	2448.0	2448.7	2446.6	2444.4	2447.3
10°	2440.2	2439.4	2437.3	2435.9	2439.4
12.5°	2428.7	2428.0	2425.9	2424.5	2427.3
15°	2414.5	2414.5	2410.9	2408.7	2409.5
17.5°	2397.3	2397.3	2392.3	2387.3	2388.7
20°	2377.3	2376.6	2369.5	2364.5	2363.7
22.5°	2352.3	2352.3	2342.3	2335.9	2333.8
25°	2321.6	2320.9	2309.5	2300.2	2298.8
27.5°	2286.6	2285.2	2271.6	2262.3	2258.8
30°	2243.1	2241.6	2227.4	2217.4	2213.1
32.5°	2191.6	2193.8	2177.4	2165.9	2161.7
35°	2133.1	2133.1	2120.2	2108.1	2101.0
37.5°	2066.0	2066.0	2053.8	2041.7	2033.1
40°	1989.5	1990.3	1977.4	1962.4	1955.3
42.5°	1903.9	1905.3	1888.1	1876.0	1868.1
45°	1810.3	1811.0	1792.5	1778.9	1772.5
47.5°	1708.9	1707.5	1686.8	1675.3	1668.9
50°	1600.4	1597.5	1574.6	1563.9	1558.2
52.5°	1486.8	1481.1	1461.1	1445.4	1440.4
55°	1369.0	1361.1	1336.1	1320.4	1319.0
57.5°	1246.1	1236.9	1216.2	1201.2	1195.4
60°	1111.9	1109.7	1092.6	1074.8	1070.5
62.5°	986.2	979.8	964.8	943.4	941.2
65°	851.9	848.4	834.8	814.8	810.5
67.5°	713.4	717.0	705.6	687.7	682.0
70°	588.4	590.6	577.7	561.3	559.2
72.5°	462.8	466.3	455.6	444.9	442.8
75°	347.8	349.2	344.2	334.9	327.8
77.5°	247.1	252.1	246.4	239.9	234.2
80°	172.1	164.2	165.0	162.1	155.7
82.5°	103.5	100.0	99.3	96.4	93.6
85°	52.1	51.4	52.1	51.4	48.6
87.5°	17.1	18.6	19.3	19.3	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)