

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: P413151

Luminaire Tested: **22PD-80-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-80-PC3-L935
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

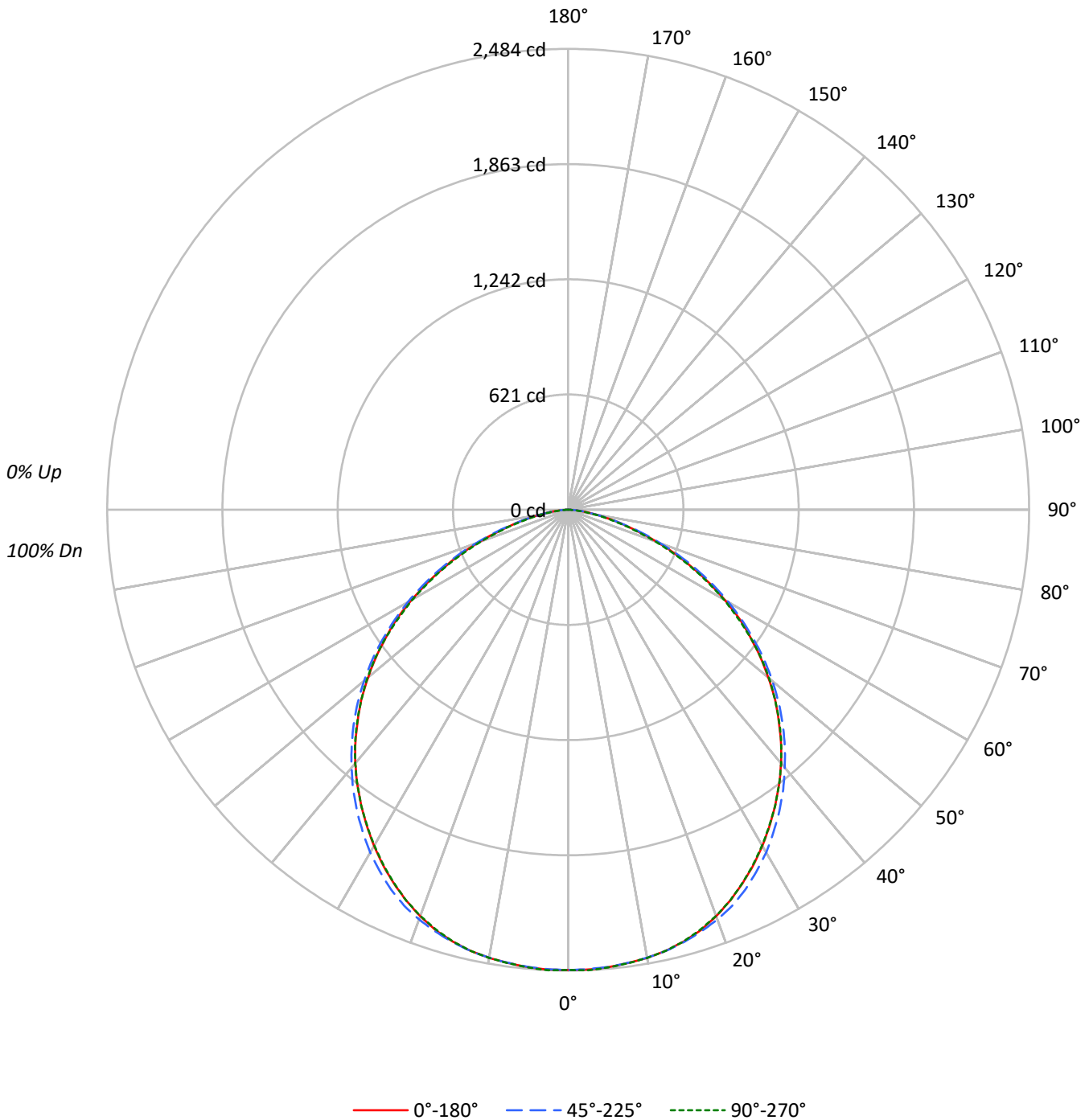
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6666.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6677	6677	6677
5°	6686	6681	6690
10°	6703	6700	6703
15°	6710	6719	6708
20°	6676	6731	6672
25°	6599	6707	6594
30°	6501	6629	6491
35°	6388	6515	6388
40°	6269	6379	6269
45°	6103	6223	6112
50°	5894	6010	5918
55°	5621	5732	5621
60°	5241	5373	5208
65°	4704	4870	4643
70°	4024	4167	3906
75°	3192	3282	3028
80°	2287	2373	2177
85°	1510	1559	1414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	3.5
10°-20°	680.0	10.2
20°-30°	1031.7	15.5
30°-40°	1232.1	18.5
40°-50°	1253.0	18.8
50°-60°	1083.9	16.3
60°-70°	745.8	11.2
70°-80°	338.5	5.1
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°	1947.2	29.2
0°-40°	3179.3	47.7
0°-60°	5516.2	82.8
0°-90°	6666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2481	2481	2481	2481	2481	
5°	2475	2473	2473	2473	2477	236
15°	2409	2410	2412	2408	2408	679
25°	2222	2242	2259	2238	2221	1024
35°	1945	1979	1983	1976	1945	1216
45°	1604	1633	1635	1634	1606	1237
55°	1198	1219	1222	1219	1198	1070
65°	739	759	765	758	729	733
75°	307	319	316	312	291	330
85°	49	52	50	49	46	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2481.3	2481.3	2481.3	2481.3	2481.3
2.5°	2481.3	2478.2	2479.0	2479.8	2484.5
5°	2475.0	2472.7	2473.4	2473.4	2476.6
7.5°	2464.8	2464.0	2464.0	2463.2	2465.6
10°	2452.9	2451.4	2452.1	2451.4	2452.9
12.5°	2434.8	2434.8	2435.6	2433.2	2434.8
15°	2408.7	2410.3	2411.9	2407.9	2407.9
17.5°	2375.6	2379.5	2383.5	2376.4	2372.4
20°	2331.4	2340.9	2350.3	2339.3	2329.8
22.5°	2280.1	2295.9	2310.1	2292.7	2280.1
25°	2222.5	2242.2	2258.8	2238.3	2220.9
27.5°	2160.1	2182.2	2198.0	2180.6	2157.0
30°	2092.3	2119.1	2133.3	2116.7	2089.1
32.5°	2019.6	2051.2	2059.9	2049.6	2018.1
35°	1944.7	1979.4	1983.3	1976.2	1944.7
37.5°	1866.5	1899.7	1902.8	1898.9	1866.5
40°	1784.5	1815.2	1816.0	1816.0	1784.5
42.5°	1696.8	1726.8	1726.8	1726.0	1699.2
45°	1603.7	1632.9	1635.3	1633.7	1606.1
47.5°	1511.4	1533.5	1537.4	1534.3	1509.8
50°	1408.0	1430.9	1435.6	1432.5	1413.5
52.5°	1305.4	1326.7	1331.4	1329.1	1307.8
55°	1198.1	1218.6	1221.7	1219.4	1198.1
57.5°	1094.7	1108.1	1111.2	1106.5	1079.7
60°	973.9	992.9	998.4	992.9	967.6
62.5°	857.1	877.6	882.4	874.5	847.6
65°	738.7	759.2	764.8	758.5	729.2
67.5°	626.6	641.6	646.4	639.3	612.4
70°	511.4	530.4	529.6	520.1	496.4
72.5°	397.8	423.8	419.1	413.6	387.5
75°	307.0	318.8	315.7	312.5	291.2
77.5°	219.4	233.6	225.7	226.5	208.4
80°	147.6	161.0	153.1	150.0	140.5
82.5°	93.9	99.4	97.9	96.3	87.6
85°	48.9	52.1	50.5	48.9	45.8
87.5°	18.9	20.5	18.9	18.9	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)