

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: P413159

Luminaire Tested: **22PD-85-PC3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413159
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-85-PC3-L930
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

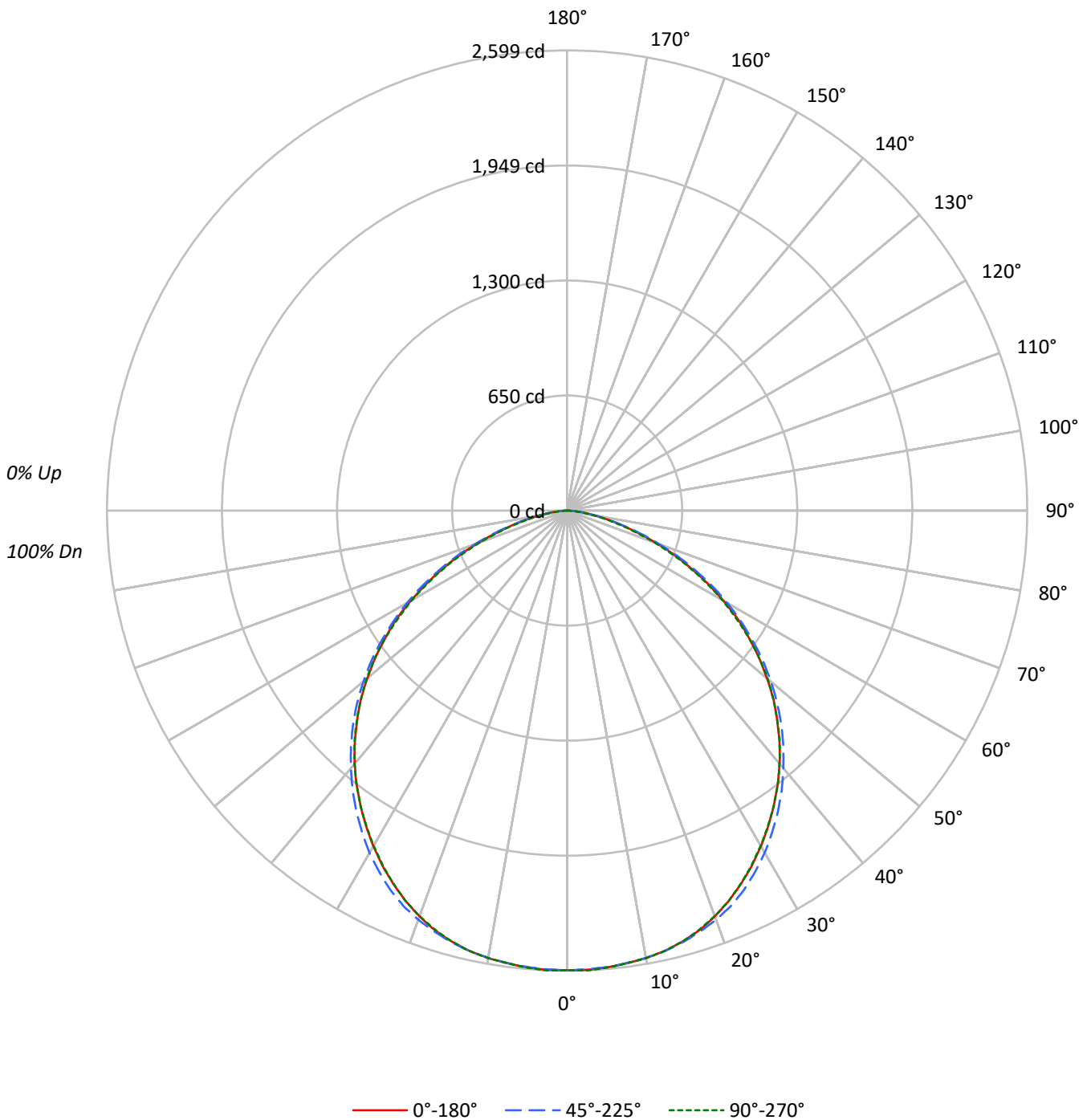
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6974.0 lumens
Efficiency: N/A
Efficacy: 90.2 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): 77.3
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	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°	6986	6986	6986
5°	6995	6990	6999
10°	7012	7010	7012
15°	7020	7030	7018
20°	6985	7042	6980
25°	6904	7016	6899
30°	6802	6935	6791
35°	6683	6817	6683
40°	6558	6674	6558
45°	6385	6511	6395
50°	6167	6288	6191
55°	5880	5997	5880
60°	5484	5621	5448
65°	4921	5095	4858
70°	4210	4359	4087
75°	3340	3434	3168
80°	2393	2483	2278
85°	1581	1630	1479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.3	3.5
10°-20°	711.4	10.2
20°-30°	1079.4	15.5
30°-40°	1289.0	18.5
40°-50°	1310.9	18.8
50°-60°	1133.9	16.3
60°-70°	780.3	11.2
70°-80°	354.1	5.1
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°	2037.1	29.2
0°-40°	3326.2	47.7
0°-60°	5771.1	82.8
0°-90°	6974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6974.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2596	2596	2596	2596	2596	
5°	2589	2587	2588	2588	2591	246
15°	2520	2522	2523	2519	2519	711
25°	2325	2346	2363	2342	2324	1071
35°	2034	2071	2075	2068	2034	1273
45°	1678	1708	1711	1709	1680	1294
55°	1253	1275	1278	1276	1253	1120
65°	773	794	800	794	763	767
75°	321	334	330	327	305	345
85°	51	54	53	51	48	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2596.0	2596.0	2596.0	2596.0	2596.0
2.5°	2596.0	2592.7	2593.5	2594.3	2599.3
5°	2589.4	2586.9	2587.7	2587.7	2591.0
7.5°	2578.7	2577.8	2577.8	2577.0	2579.5
10°	2566.3	2564.6	2565.4	2564.6	2566.3
12.5°	2547.3	2547.3	2548.1	2545.6	2547.3
15°	2520.0	2521.7	2523.3	2519.2	2519.2
17.5°	2485.3	2489.5	2493.6	2486.2	2482.0
20°	2439.1	2449.0	2458.9	2447.4	2437.5
22.5°	2385.4	2402.0	2416.8	2398.6	2385.4
25°	2325.2	2345.8	2363.1	2341.7	2323.5
27.5°	2259.9	2283.1	2299.6	2281.4	2256.6
30°	2188.9	2217.0	2231.9	2214.5	2185.6
32.5°	2113.0	2146.0	2155.1	2144.3	2111.3
35°	2034.5	2070.8	2075.0	2067.5	2034.5
37.5°	1952.8	1987.5	1990.8	1986.6	1952.8
40°	1866.9	1899.1	1899.9	1899.9	1866.9
42.5°	1775.2	1806.6	1806.6	1805.8	1777.7
45°	1677.8	1708.4	1710.8	1709.2	1680.3
47.5°	1581.2	1604.3	1608.5	1605.2	1579.6
50°	1473.0	1497.0	1501.9	1498.6	1478.8
52.5°	1365.7	1388.0	1393.0	1390.5	1368.2
55°	1253.4	1274.9	1278.2	1275.7	1253.4
57.5°	1145.2	1159.3	1162.6	1157.6	1129.6
60°	1018.9	1038.7	1044.5	1038.7	1012.3
62.5°	896.7	918.2	923.1	914.9	886.8
65°	772.9	794.3	800.1	793.5	762.9
67.5°	655.6	671.3	676.2	668.8	640.7
70°	535.1	554.9	554.0	544.1	519.4
72.5°	416.2	443.4	438.4	432.7	405.4
75°	321.2	333.6	330.3	327.0	304.7
77.5°	229.5	244.4	236.1	237.0	218.0
80°	154.4	168.4	160.2	156.9	147.0
82.5°	98.3	104.0	102.4	100.7	91.7
85°	51.2	54.5	52.8	51.2	47.9
87.5°	19.8	21.5	19.8	19.8	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)