

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: P413146

Luminaire Tested: **22PD-80-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413146
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-L835
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

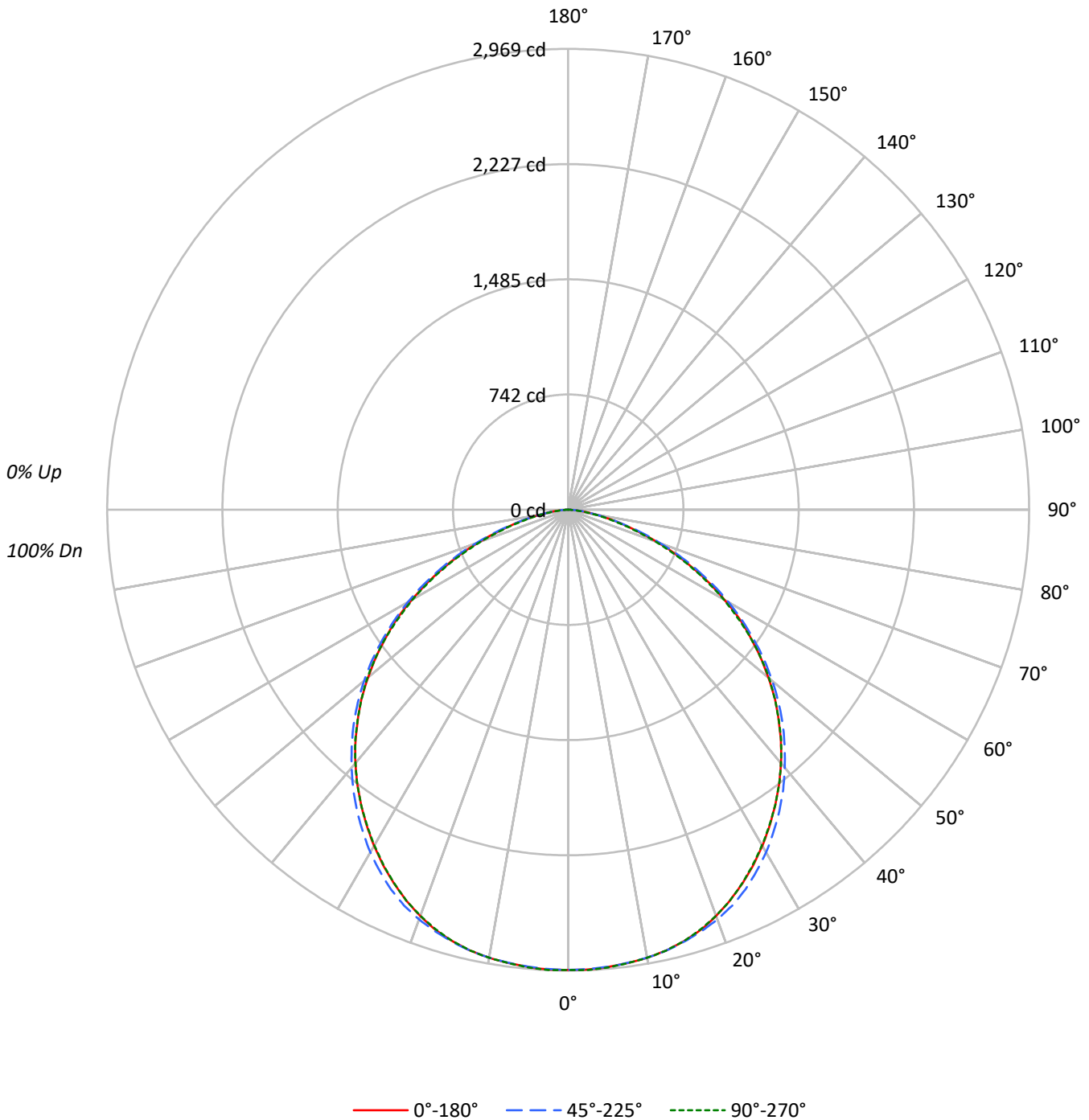
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7966.0 lumens
Efficiency: N/A
Efficacy: 109.7 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°	7980	7980	7980
5°	7990	7984	7995
10°	8010	8007	8010
15°	8019	8030	8016
20°	7978	8043	7973
25°	7886	8015	7880
30°	7769	7921	7757
35°	7634	7786	7634
40°	7491	7624	7491
45°	7293	7437	7304
50°	7044	7182	7072
55°	6717	6850	6717
60°	6264	6421	6223
65°	5621	5819	5549
70°	4809	4980	4667
75°	3815	3923	3618
80°	2734	2836	2602
85°	1806	1865	1689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	3.5
10°-20°	812.6	10.2
20°-30°	1232.9	15.5
30°-40°	1472.4	18.5
40°-50°	1497.4	18.8
50°-60°	1295.2	16.3
60°-70°	891.3	11.2
70°-80°	404.5	5.1
80°-90°	78.3	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°	2326.9	29.2
0°-40°	3799.3	47.7
0°-60°	6591.9	82.8
0°-90°	7966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2965	2965	2965	2965	2965	
5°	2958	2955	2956	2956	2960	281
15°	2878	2880	2882	2878	2878	812
25°	2656	2680	2699	2675	2654	1223
35°	2324	2365	2370	2362	2324	1454
45°	1916	1951	1954	1952	1919	1478
55°	1432	1456	1460	1457	1432	1279
65°	883	907	914	906	872	876
75°	367	381	377	374	348	395
85°	58	62	60	58	55	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2965.3	2965.3	2965.3	2965.3	2965.3
2.5°	2965.3	2961.5	2962.4	2963.4	2969.0
5°	2957.7	2954.9	2955.8	2955.8	2959.6
7.5°	2945.4	2944.5	2944.5	2943.6	2946.4
10°	2931.3	2929.4	2930.4	2929.4	2931.3
12.5°	2909.6	2909.6	2910.5	2907.7	2909.6
15°	2878.5	2880.4	2882.3	2877.5	2877.5
17.5°	2838.9	2843.6	2848.3	2839.8	2835.1
20°	2786.1	2797.4	2808.7	2795.5	2784.2
22.5°	2724.7	2743.6	2760.6	2739.8	2724.7
25°	2655.9	2679.5	2699.3	2674.8	2654.0
27.5°	2581.4	2607.8	2626.7	2605.9	2577.6
30°	2500.3	2532.3	2549.3	2529.5	2496.5
32.5°	2413.5	2451.2	2461.6	2449.4	2411.6
35°	2323.9	2365.4	2370.1	2361.6	2323.9
37.5°	2230.5	2270.2	2273.9	2269.2	2230.5
40°	2132.5	2169.2	2170.2	2170.2	2132.5
42.5°	2027.8	2063.6	2063.6	2062.7	2030.6
45°	1916.5	1951.4	1954.2	1952.3	1919.3
47.5°	1806.1	1832.5	1837.2	1833.5	1804.2
50°	1682.6	1709.9	1715.6	1711.8	1689.2
52.5°	1560.0	1585.4	1591.1	1588.3	1562.8
55°	1431.7	1456.2	1460.0	1457.2	1431.7
57.5°	1308.1	1324.2	1327.9	1322.3	1290.2
60°	1163.8	1186.5	1193.1	1186.5	1156.3
62.5°	1024.3	1048.8	1054.4	1045.0	1012.9
65°	882.8	907.3	913.9	906.4	871.5
67.5°	748.9	766.8	772.4	763.9	731.9
70°	611.2	633.8	632.9	621.5	593.2
72.5°	475.3	506.5	500.8	494.2	463.1
75°	366.9	381.0	377.3	373.5	348.0
77.5°	262.2	279.2	269.7	270.7	249.0
80°	176.4	192.4	183.0	179.2	167.9
82.5°	112.2	118.8	117.0	115.1	104.7
85°	58.5	62.2	60.4	58.5	54.7
87.5°	22.6	24.5	22.6	22.6	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)