

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: P413046

Luminaire Tested: **22PD-25-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413046
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-25-PC3-L830
Description: 2500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

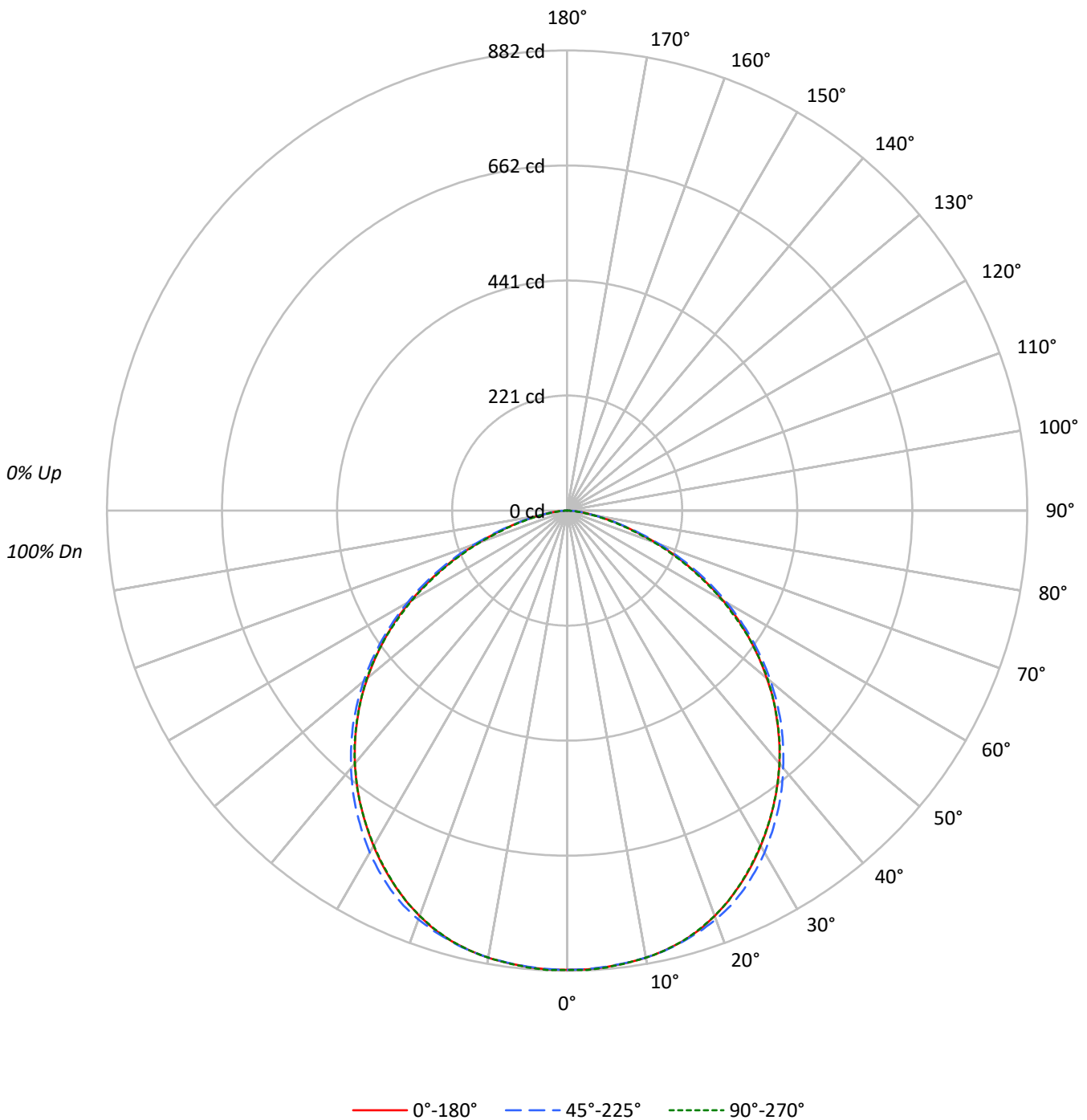
Lumens per Lamp: N/A
Luminaire Lumens: 2365.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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°	2369	2369	2369
5°	2372	2370	2374
10°	2378	2377	2378
15°	2381	2384	2380
20°	2369	2388	2367
25°	2341	2379	2339
30°	2307	2352	2303
35°	2266	2312	2266
40°	2224	2263	2224
45°	2165	2208	2168
50°	2091	2132	2099
55°	1994	2034	1994
60°	1859	1906	1848
65°	1669	1727	1647
70°	1427	1478	1386
75°	1132	1164	1074
80°	812	841	772
85°	537	553	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	3.5
10°-20°	241.3	10.2
20°-30°	366.0	15.5
30°-40°	437.1	18.5
40°-50°	444.6	18.8
50°-60°	384.5	16.3
60°-70°	264.6	11.2
70°-80°	120.1	5.1
80°-90°	23.2	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°	690.8	29.2
0°-40°	1128.0	47.7
0°-60°	1957.1	82.8
0°-90°	2365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	878	877	878	878	879	84
15°	855	855	856	854	854	241
25°	788	796	801	794	788	363
35°	690	702	704	701	690	432
45°	569	579	580	580	570	439
55°	425	432	434	433	425	380
65°	262	269	271	269	259	260
75°	109	113	112	111	103	117
85°	17	18	18	17	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	880.3	880.3	880.3	880.3	880.3
2.5°	880.3	879.2	879.5	879.8	881.5
5°	878.1	877.3	877.5	877.5	878.7
7.5°	874.5	874.2	874.2	873.9	874.7
10°	870.3	869.7	870.0	869.7	870.3
12.5°	863.8	863.8	864.1	863.3	863.8
15°	854.6	855.1	855.7	854.3	854.3
17.5°	842.8	844.2	845.6	843.1	841.7
20°	827.1	830.5	833.9	829.9	826.6
22.5°	808.9	814.5	819.6	813.4	808.9
25°	788.5	795.5	801.4	794.1	787.9
27.5°	766.4	774.2	779.8	773.7	765.3
30°	742.3	751.8	756.9	751.0	741.2
32.5°	716.5	727.7	730.8	727.2	716.0
35°	689.9	702.3	703.7	701.1	689.9
37.5°	662.2	674.0	675.1	673.7	662.2
40°	633.1	644.0	644.3	644.3	633.1
42.5°	602.0	612.7	612.7	612.4	602.9
45°	569.0	579.3	580.2	579.6	569.8
47.5°	536.2	544.1	545.5	544.3	535.7
50°	499.5	507.7	509.3	508.2	501.5
52.5°	463.1	470.7	472.4	471.5	464.0
55°	425.1	432.3	433.5	432.6	425.1
57.5°	388.4	393.1	394.3	392.6	383.1
60°	345.5	352.2	354.2	352.2	343.3
62.5°	304.1	311.4	313.0	310.2	300.7
65°	262.1	269.4	271.3	269.1	258.7
67.5°	222.3	227.6	229.3	226.8	217.3
70°	181.4	188.2	187.9	184.5	176.1
72.5°	141.1	150.4	148.7	146.7	137.5
75°	108.9	113.1	112.0	110.9	103.3
77.5°	77.8	82.9	80.1	80.4	73.9
80°	52.4	57.1	54.3	53.2	49.8
82.5°	33.3	35.3	34.7	34.2	31.1
85°	17.4	18.5	17.9	17.4	16.2
87.5°	6.7	7.3	6.7	6.7	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)