

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: P412695

Luminaire Tested: **22PD-20-PP3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-20-PP3-L830
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

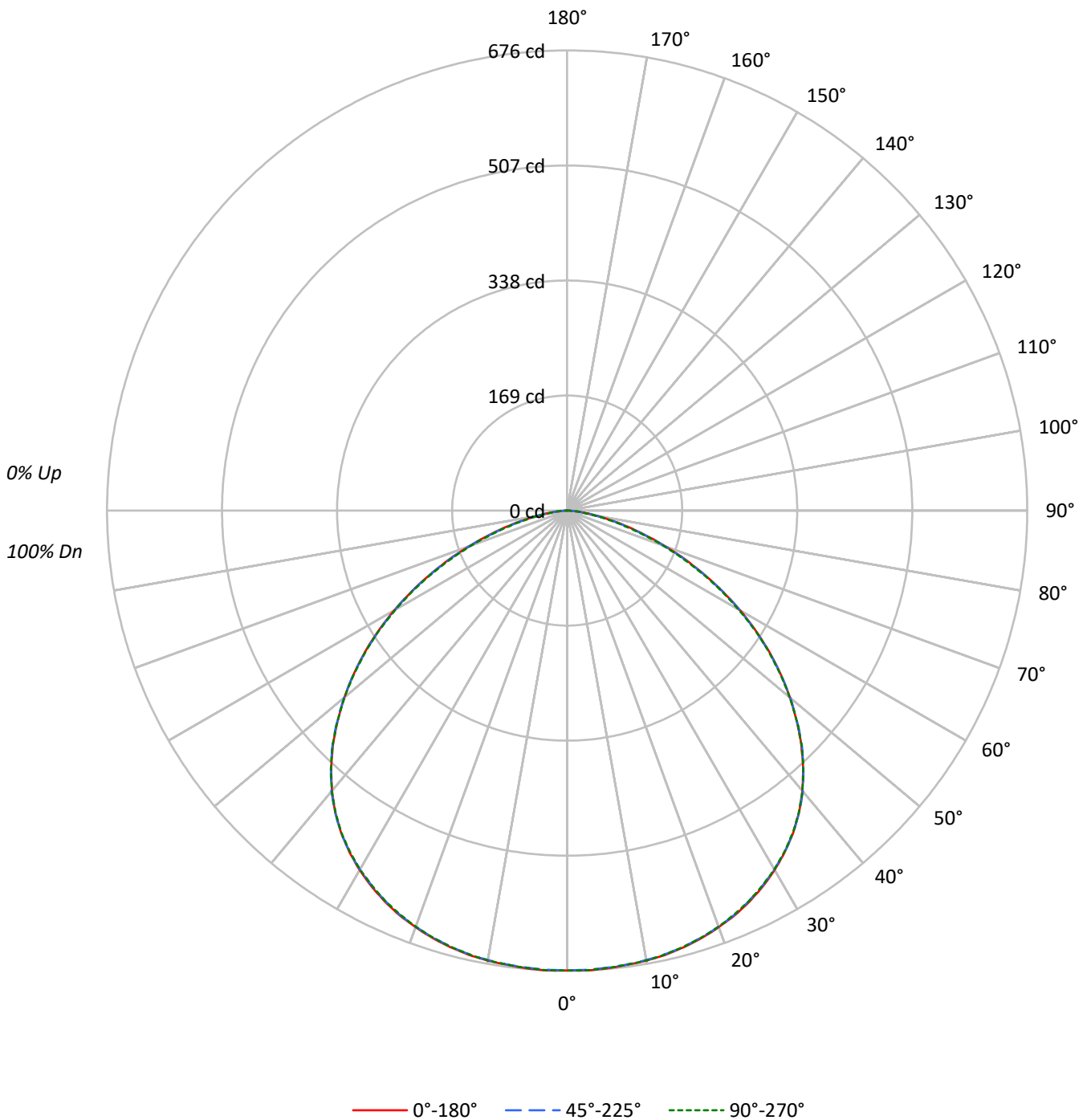
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1938.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.9
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	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	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
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°	1818	1818	1818
5°	1823	1821	1822
10°	1835	1832	1834
15°	1849	1847	1847
20°	1865	1863	1863
25°	1882	1878	1878
30°	1895	1891	1891
35°	1900	1900	1898
40°	1888	1892	1888
45°	1851	1856	1853
50°	1788	1791	1786
55°	1703	1698	1695
60°	1580	1577	1565
65°	1412	1410	1394
70°	1207	1200	1173
75°	962	934	906
80°	685	671	635
85°	445	445	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.3
10°-20°	187.4	9.7
20°-30°	291.8	15.1
30°-40°	361.1	18.6
40°-50°	374.4	19.3
50°-60°	322.7	16.7
60°-70°	219.4	11.3
70°-80°	98.2	5.1
80°-90°	18.7	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°	543.4	28.0
0°-40°	904.5	46.7
0°-60°	1601.7	82.6
0°-90°	1938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	675	674	674	674	675	64
15°	664	663	663	663	663	188
25°	634	633	633	632	633	292
35°	578	578	578	578	578	361
45°	486	486	488	486	487	374
55°	363	362	362	361	361	324
65°	222	224	222	221	219	220
75°	92	93	90	89	87	100
85°	14	15	14	14	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	675.5	675.5	675.5	675.5	675.5
2.5°	676.4	675.0	675.0	675.3	675.9
5°	675.0	673.7	674.1	673.9	674.6
7.5°	673.2	672.1	672.8	672.3	672.8
10°	671.4	670.3	670.5	670.3	671.0
12.5°	668.3	666.9	667.4	667.4	667.6
15°	663.8	662.6	663.1	662.6	663.1
17.5°	658.3	657.0	657.2	657.0	657.4
20°	651.3	650.4	650.7	650.2	650.4
22.5°	643.5	642.3	642.6	642.1	642.1
25°	633.8	632.9	632.6	632.4	632.6
27.5°	622.5	621.4	621.4	621.1	621.1
30°	609.8	608.7	608.7	608.5	608.5
32.5°	595.0	594.5	594.7	594.3	594.1
35°	578.5	577.8	578.5	577.6	577.8
37.5°	559.3	558.4	559.8	558.9	559.1
40°	537.5	537.0	538.6	537.9	537.5
42.5°	513.1	513.1	513.8	514.0	513.5
45°	486.3	485.8	487.6	486.5	486.9
47.5°	457.4	456.7	458.1	457.8	457.6
50°	427.2	426.7	427.8	426.7	426.7
52.5°	395.8	395.6	395.8	394.7	394.5
55°	362.9	361.5	362.0	361.3	361.3
57.5°	328.6	327.0	327.3	327.0	327.3
60°	293.6	293.2	293.0	291.8	290.7
62.5°	257.8	258.2	258.0	256.4	255.3
65°	221.7	223.5	221.5	220.8	219.0
67.5°	187.6	188.3	187.0	185.4	183.4
70°	153.4	154.7	152.5	150.9	149.1
72.5°	120.7	121.6	119.5	118.6	116.4
75°	92.5	92.7	89.8	89.3	87.1
77.5°	65.9	66.8	64.5	64.5	62.2
80°	44.2	45.8	43.3	42.6	41.0
82.5°	27.7	28.0	27.3	26.6	25.9
85°	14.4	14.9	14.4	14.0	14.0
87.5°	5.4	5.6	5.4	5.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)