

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: P412361

Luminaire Tested: **22PD-20-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-20-PB1-L950
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

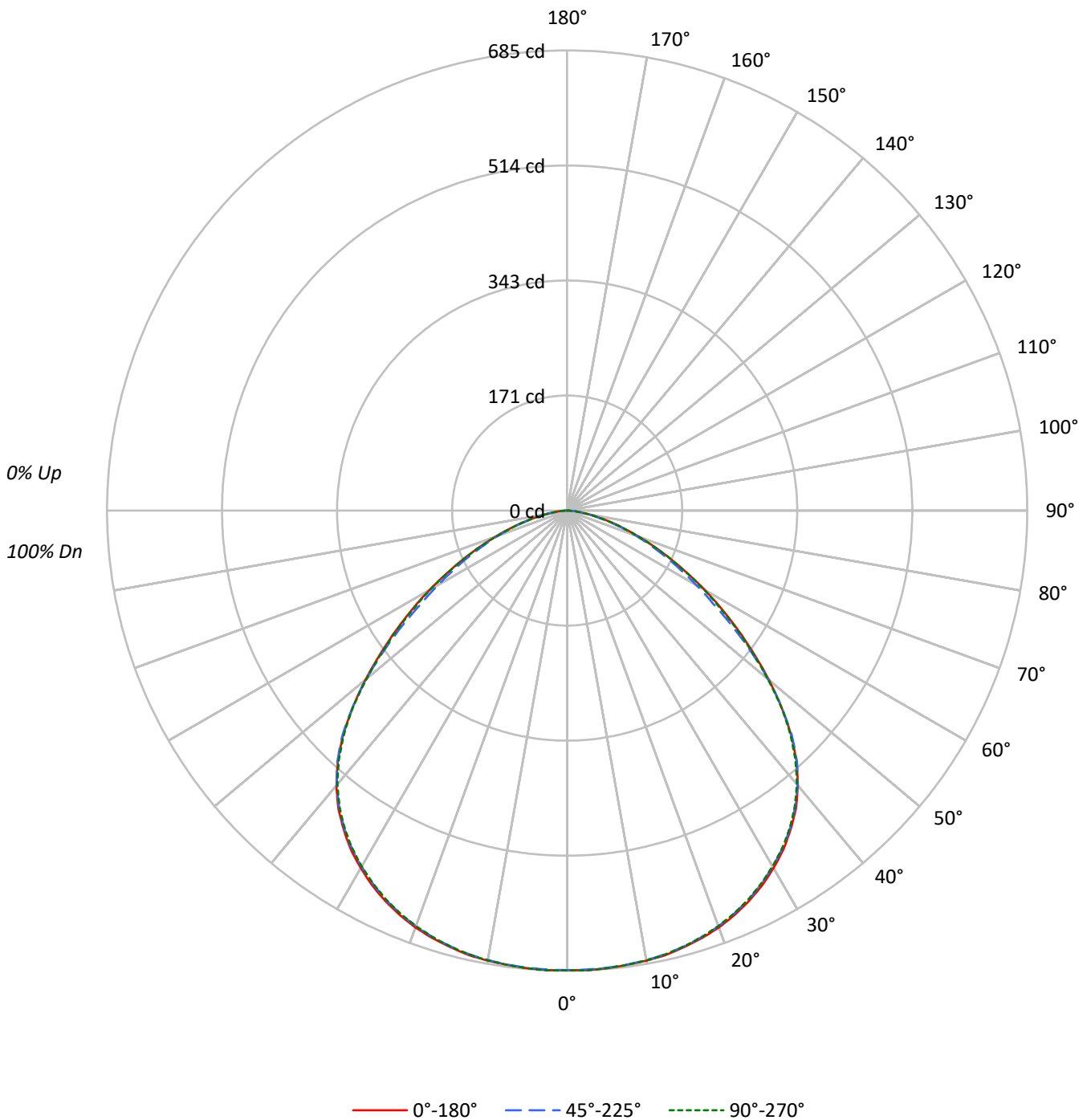
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1796.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1841	1841	1841
5°	1847	1845	1847
10°	1859	1856	1858
15°	1874	1871	1871
20°	1891	1886	1885
25°	1903	1897	1896
30°	1909	1902	1900
35°	1905	1900	1896
40°	1877	1875	1869
45°	1794	1800	1786
50°	1643	1634	1632
55°	1460	1408	1450
60°	1273	1195	1265
65°	1079	1021	1074
70°	892	855	884
75°	722	675	692
80°	521	505	502
85°	340	340	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	3.6
10°-20°	189.8	10.6
20°-30°	294.6	16.4
30°-40°	361.2	20.1
40°-50°	361.1	20.1
50°-60°	273.5	15.2
60°-70°	164.0	9.1
70°-80°	72.2	4.0
80°-90°	14.3	0.8
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°	549.5	30.6
0°-40°	910.7	50.7
0°-60°	1545.4	86.0
0°-90°	1796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	684	683	683	683	684	65
15°	673	672	672	671	672	190
25°	641	640	639	638	638	295
35°	580	580	578	578	577	362
45°	472	472	473	472	469	361
55°	311	304	300	304	309	279
65°	169	164	160	163	169	169
75°	69	68	65	66	67	74
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	684.1	684.1	684.1	684.1	684.1
2.5°	684.7	683.7	683.9	683.9	685.2
5°	683.7	682.8	683.0	682.8	683.9
7.5°	682.2	681.3	681.6	681.3	682.0
10°	680.3	679.4	679.4	679.0	679.9
12.5°	677.7	676.7	676.3	676.1	676.7
15°	672.7	672.0	671.6	671.2	671.6
17.5°	667.2	666.1	665.7	664.8	665.7
20°	660.4	658.9	658.5	657.9	658.1
22.5°	651.5	650.2	649.6	648.6	649.0
25°	640.9	639.7	639.0	638.0	638.4
27.5°	628.7	627.8	626.3	625.5	625.7
30°	614.5	613.7	612.0	611.5	611.5
32.5°	598.8	597.8	596.3	595.9	595.7
35°	580.0	579.8	578.3	577.9	577.3
37.5°	559.5	559.1	557.4	557.0	556.3
40°	534.3	533.9	533.7	532.8	532.0
42.5°	505.1	505.8	506.2	504.5	502.8
45°	471.5	472.1	473.0	471.7	469.4
47.5°	432.2	434.7	433.4	434.3	431.9
50°	392.4	392.4	390.3	391.1	389.9
52.5°	350.7	347.3	344.8	346.5	348.2
55°	311.2	304.4	300.2	304.2	309.0
57.5°	273.3	265.3	257.4	263.8	269.7
60°	236.5	227.2	222.1	226.8	235.0
62.5°	201.6	194.8	189.7	193.3	200.3
65°	169.4	163.5	160.3	163.1	168.6
67.5°	140.0	136.0	132.8	135.2	139.4
70°	113.4	112.3	108.7	109.8	112.3
72.5°	89.1	88.8	85.7	86.5	88.0
75°	69.4	67.9	64.9	66.0	66.6
77.5°	49.1	49.7	47.0	47.6	47.6
80°	33.6	34.7	32.6	32.2	32.4
82.5°	21.4	21.4	21.2	20.9	20.3
85°	11.0	11.4	11.0	10.6	10.6
87.5°	4.2	4.2	4.2	4.0	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)