

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: P412383

Luminaire Tested: **22PD-35-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412383
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-35-PB1-L850
Description: 3500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

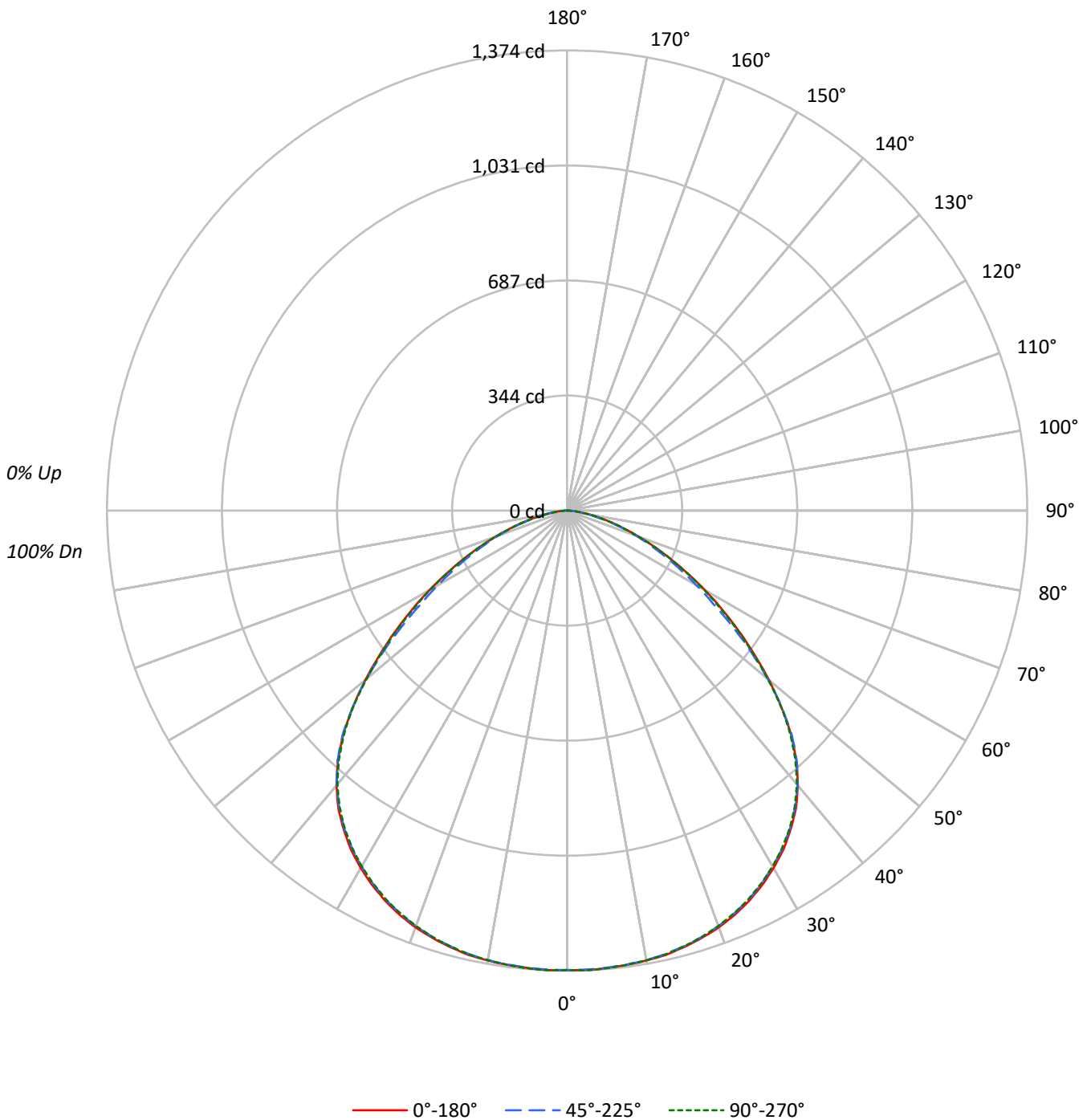
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3602.0 lumens
Efficiency: N/A
Efficacy: 123.4 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): 29.2
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°	3692	3692	3692
5°	3704	3700	3705
10°	3728	3724	3726
15°	3758	3753	3753
20°	3793	3782	3779
25°	3817	3805	3802
30°	3829	3814	3811
35°	3822	3810	3803
40°	3764	3760	3748
45°	3599	3610	3583
50°	3295	3277	3273
55°	2928	2824	2908
60°	2553	2398	2537
65°	2164	2048	2153
70°	1789	1716	1773
75°	1447	1354	1389
80°	1046	1012	1006
85°	682	682	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.6
10°-20°	380.7	10.6
20°-30°	590.8	16.4
30°-40°	724.5	20.1
40°-50°	724.2	20.1
50°-60°	548.6	15.2
60°-70°	329.0	9.1
70°-80°	144.9	4.0
80°-90°	28.7	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°	1102.1	30.6
0°-40°	1826.6	50.7
0°-60°	3099.4	86.0
0°-90°	3602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1371	1370	1370	1370	1372	131
15°	1349	1348	1347	1346	1347	381
25°	1286	1283	1282	1280	1280	593
35°	1163	1163	1160	1159	1158	727
45°	946	947	949	946	941	724
55°	624	610	602	610	620	559
65°	340	328	322	327	338	340
75°	139	136	130	132	134	148
85°	22	23	22	21	21	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.0	1372.0	1372.0	1372.0	1372.0
2.5°	1373.3	1371.1	1371.6	1371.6	1374.1
5°	1371.1	1369.5	1369.9	1369.5	1371.6
7.5°	1368.2	1366.5	1366.9	1366.5	1367.8
10°	1364.4	1362.7	1362.7	1361.8	1363.5
12.5°	1359.3	1357.1	1356.3	1355.9	1357.1
15°	1349.1	1347.8	1347.0	1346.1	1347.0
17.5°	1338.1	1335.9	1335.1	1333.4	1335.1
20°	1324.5	1321.5	1320.7	1319.4	1319.8
22.5°	1306.7	1304.1	1302.8	1300.7	1301.6
25°	1285.5	1282.9	1281.6	1279.5	1280.4
27.5°	1260.8	1259.1	1256.2	1254.5	1254.9
30°	1232.4	1230.7	1227.3	1226.5	1226.5
32.5°	1201.0	1198.9	1195.9	1195.1	1194.7
35°	1163.3	1162.8	1159.9	1159.0	1157.8
37.5°	1122.1	1121.3	1117.9	1117.0	1115.8
40°	1071.6	1070.8	1070.4	1068.7	1067.0
42.5°	1013.1	1014.4	1015.2	1011.8	1008.4
45°	945.6	946.9	948.6	946.1	941.4
47.5°	866.7	871.8	869.3	871.0	866.3
50°	787.0	787.0	782.7	784.4	781.9
52.5°	703.4	696.6	691.5	694.9	698.3
55°	624.1	610.5	602.0	610.1	619.8
57.5°	548.1	532.0	516.3	529.0	540.9
60°	474.3	455.6	445.5	454.8	471.3
62.5°	404.3	390.7	380.5	387.8	401.8
65°	339.8	327.9	321.6	327.1	338.1
67.5°	280.8	272.8	266.4	271.1	279.6
70°	227.4	225.3	218.1	220.2	225.3
72.5°	178.6	178.2	171.8	173.5	176.5
75°	139.2	136.2	130.2	132.4	133.6
77.5°	98.4	99.7	94.2	95.5	95.5
80°	67.5	69.6	65.3	64.5	64.9
82.5°	42.8	42.8	42.4	42.0	40.7
85°	22.1	22.9	22.1	21.2	21.2
87.5°	8.5	8.5	8.5	8.1	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)