

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: P412492

Luminaire Tested: **24PD-30-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-30-PB1-L927
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

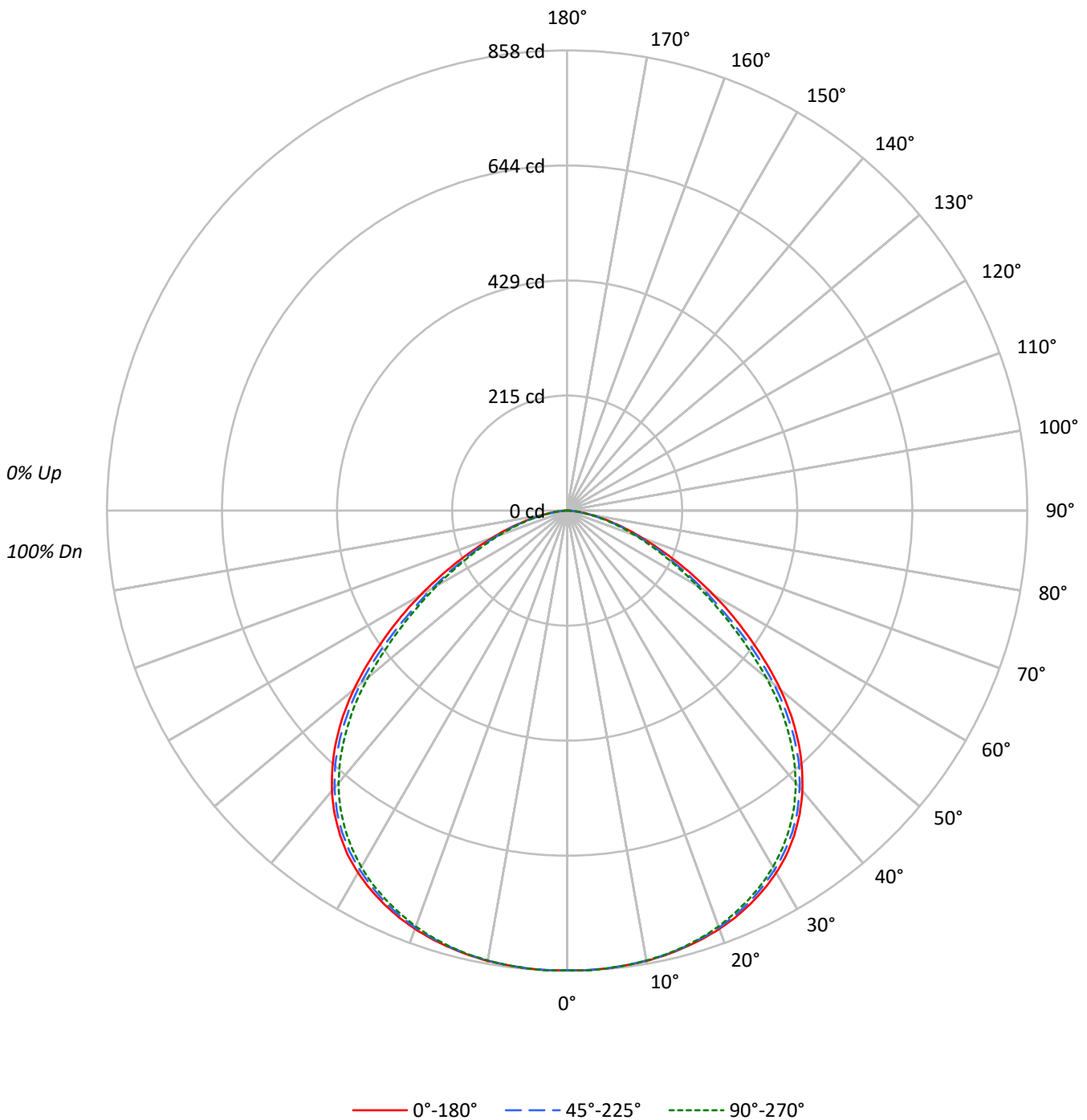
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2281.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1153	1153	1153
5°	1157	1157	1157
10°	1165	1164	1164
15°	1175	1174	1173
20°	1189	1185	1182
25°	1201	1195	1188
30°	1212	1202	1192
35°	1213	1202	1188
40°	1199	1185	1165
45°	1160	1139	1109
50°	1088	1054	1015
55°	977	919	882
60°	851	783	753
65°	716	663	634
70°	584	554	532
75°	468	451	433
80°	359	331	322
85°	224	218	218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	3.6
10°-20°	238.2	10.4
20°-30°	371.1	16.3
30°-40°	456.6	20.0
40°-50°	458.6	20.1
50°-60°	353.4	15.5
60°-70°	209.8	9.2
70°-80°	93.4	4.1
80°-90°	18.2	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°	690.9	30.3
0°-40°	1147.5	50.3
0°-60°	1959.5	85.9
0°-90°	2281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	857	857	857	856	857	82
15°	844	844	843	841	842	239
25°	809	809	805	801	800	373
35°	738	737	732	726	723	461
45°	610	608	598	588	583	468
55°	417	409	392	380	376	373
65°	225	215	208	200	199	225
75°	90	88	87	84	83	97
85°	14	14	14	13	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.2	857.2	857.2	857.2	857.2
2.5°	857.7	857.5	857.5	856.5	858.4
5°	856.8	857.0	856.8	855.9	856.8
7.5°	855.0	855.2	854.7	853.8	854.7
10°	852.7	852.7	851.8	851.3	852.0
12.5°	848.8	848.8	847.9	847.2	847.9
15°	843.8	843.8	842.7	841.3	842.0
17.5°	837.7	837.7	835.9	834.1	834.5
20°	830.2	830.0	827.5	825.0	825.2
22.5°	820.6	820.4	817.2	814.3	813.4
25°	809.1	808.8	805.0	801.3	800.4
27.5°	795.7	794.7	790.4	786.3	785.4
30°	779.8	779.1	773.4	769.3	767.5
32.5°	761.4	759.5	754.3	749.3	746.8
35°	738.4	737.3	732.0	725.9	723.0
37.5°	712.5	711.4	705.7	698.9	695.5
40°	682.5	681.6	674.6	667.5	663.2
42.5°	648.0	647.3	639.8	630.0	625.5
45°	609.6	608.0	598.4	588.5	583.0
47.5°	566.9	564.1	552.6	543.0	537.1
50°	519.6	516.0	503.5	491.2	485.1
52.5°	468.5	462.1	449.2	435.1	429.2
55°	416.7	408.7	391.9	380.1	375.8
57.5°	366.0	354.4	338.5	330.1	325.8
60°	316.3	303.5	291.0	282.9	279.9
62.5°	268.8	258.1	247.4	239.2	237.4
65°	224.9	215.2	208.1	200.2	199.0
67.5°	184.0	179.5	173.1	166.3	165.4
70°	148.4	146.5	140.9	136.8	135.2
72.5°	118.4	116.6	112.5	109.5	109.1
75°	90.0	88.2	86.8	83.8	83.2
77.5°	64.1	64.3	63.2	61.6	62.0
80°	46.3	43.6	42.7	41.8	41.6
82.5°	28.4	26.8	26.1	25.9	26.4
85°	14.5	13.9	14.1	13.4	14.1
87.5°	5.0	5.0	5.2	5.0	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)