

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: P413079

Luminaire Tested: **22PD-40-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413079
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-40-PC3-L935
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

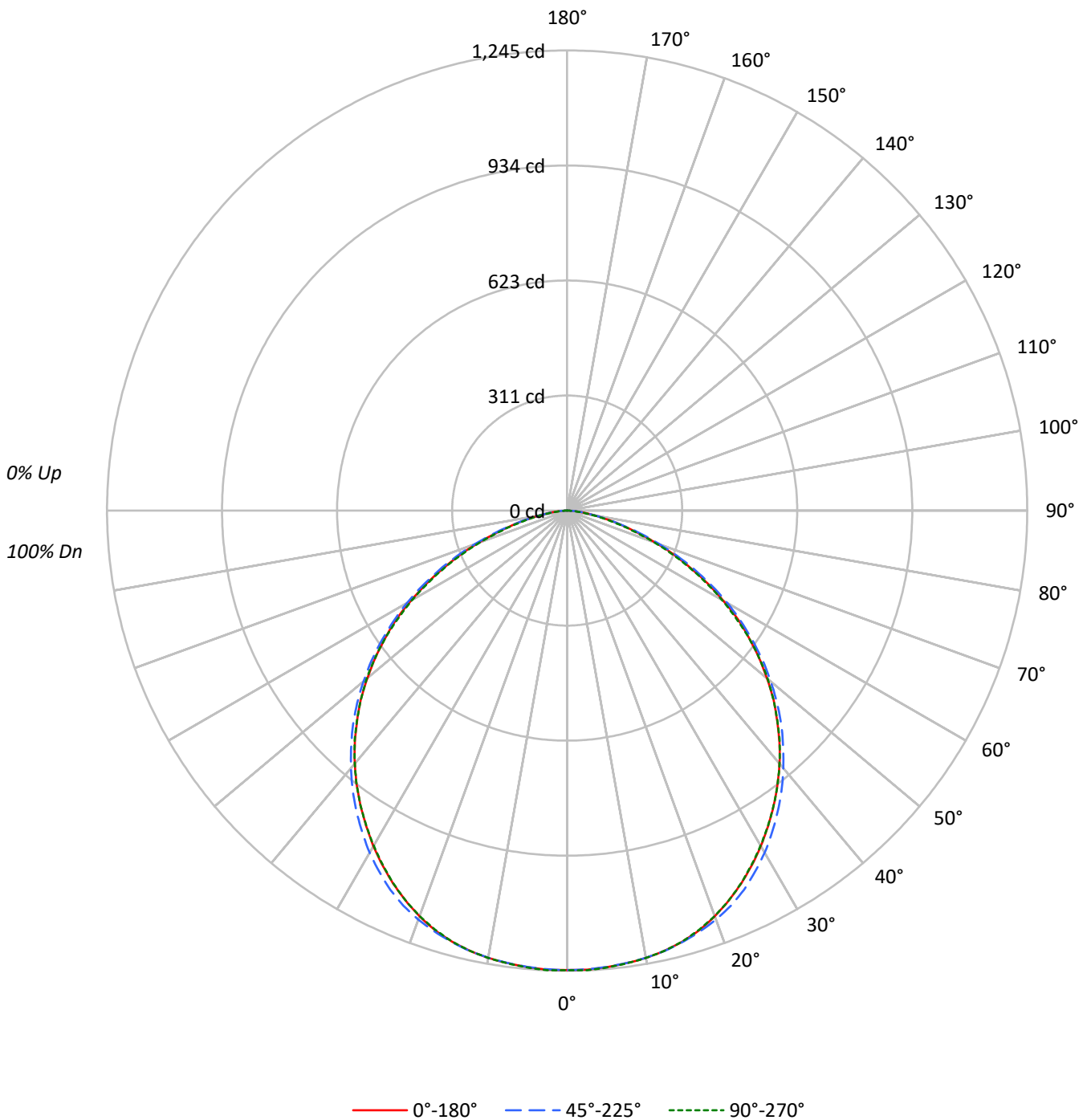
Lumens per Lamp: N/A
Luminaire Lumens: 3340.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.8
Input Voltage (V): NR
Input Current (A_{in}): 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°	3346	3346	3346
5°	3350	3348	3352
10°	3358	3357	3358
15°	3362	3367	3361
20°	3345	3372	3343
25°	3306	3361	3304
30°	3257	3321	3252
35°	3201	3265	3201
40°	3141	3196	3141
45°	3058	3118	3062
50°	2954	3011	2965
55°	2816	2872	2816
60°	2626	2692	2609
65°	2357	2440	2327
70°	2016	2087	1957
75°	1599	1645	1517
80°	1145	1189	1091
85°	756	781	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	3.5
10°-20°	340.7	10.2
20°-30°	516.9	15.5
30°-40°	617.3	18.5
40°-50°	627.8	18.8
50°-60°	543.1	16.3
60°-70°	373.7	11.2
70°-80°	169.6	5.1
80°-90°	32.8	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°	975.6	29.2
0°-40°	1593.0	47.7
0°-60°	2763.9	82.8
0°-90°	3340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1240	1239	1239	1239	1241	118
15°	1207	1208	1208	1206	1206	340
25°	1114	1124	1132	1122	1113	513
35°	974	992	994	990	974	609
45°	804	818	819	819	805	620
55°	600	611	612	611	600	536
65°	370	380	383	380	365	367
75°	154	160	158	157	146	165
85°	24	26	25	24	23	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1243.3	1243.3	1243.3	1243.3	1243.3
2.5°	1243.3	1241.7	1242.1	1242.5	1244.9
5°	1240.1	1238.9	1239.3	1239.3	1240.9
7.5°	1235.0	1234.6	1234.6	1234.2	1235.4
10°	1229.0	1228.2	1228.6	1228.2	1229.0
12.5°	1219.9	1219.9	1220.3	1219.2	1219.9
15°	1206.9	1207.7	1208.5	1206.5	1206.5
17.5°	1190.3	1192.3	1194.2	1190.7	1188.7
20°	1168.1	1172.9	1177.6	1172.1	1167.4
22.5°	1142.4	1150.3	1157.5	1148.8	1142.4
25°	1113.6	1123.5	1131.8	1121.5	1112.8
27.5°	1082.3	1093.4	1101.3	1092.6	1080.7
30°	1048.3	1061.8	1068.9	1060.6	1046.7
32.5°	1011.9	1027.8	1032.1	1027.0	1011.2
35°	974.4	991.8	993.8	990.2	974.4
37.5°	935.2	951.8	953.4	951.4	935.2
40°	894.1	909.5	909.9	909.9	894.1
42.5°	850.2	865.2	865.2	864.8	851.4
45°	803.5	818.2	819.4	818.6	804.7
47.5°	757.3	768.3	770.3	768.7	756.5
50°	705.5	716.9	719.3	717.7	708.2
52.5°	654.1	664.7	667.1	665.9	655.3
55°	600.3	610.6	612.1	611.0	600.3
57.5°	548.5	555.2	556.8	554.4	541.0
60°	488.0	497.5	500.2	497.5	484.8
62.5°	429.5	439.7	442.1	438.2	424.7
65°	370.1	380.4	383.2	380.0	365.4
67.5°	314.0	321.5	323.9	320.3	306.9
70°	256.2	265.7	265.3	260.6	248.7
72.5°	199.3	212.4	210.0	207.2	194.2
75°	153.8	159.8	158.2	156.6	145.9
77.5°	109.9	117.1	113.1	113.5	104.4
80°	73.9	80.7	76.7	75.1	70.4
82.5°	47.1	49.8	49.0	48.2	43.9
85°	24.5	26.1	25.3	24.5	22.9
87.5°	9.5	10.3	9.5	9.5	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)