

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: P412737

Luminaire Tested: **22PD-40-PP3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412737
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-40-PP3-L935
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

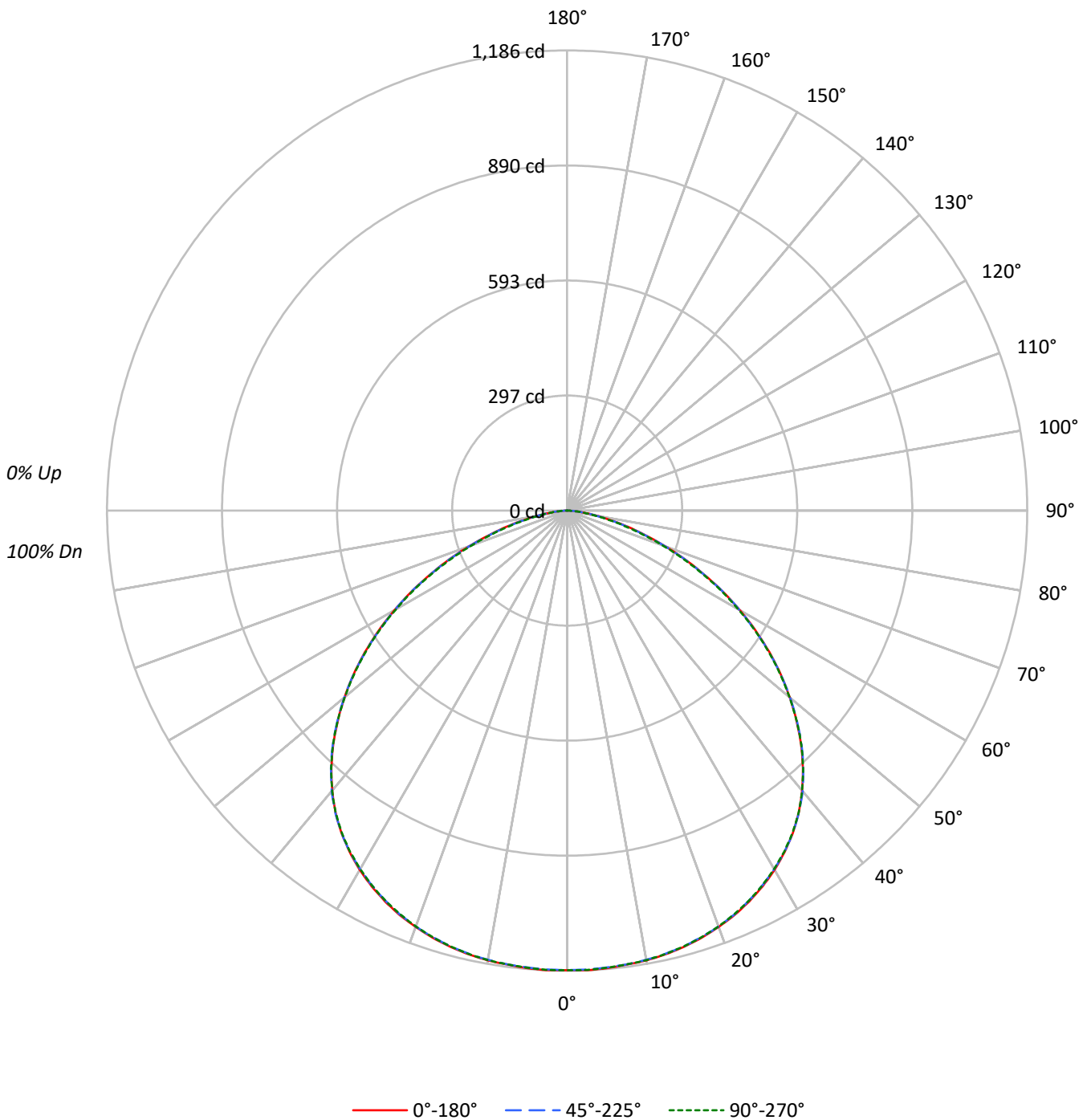
Lumens per Lamp: N/A
Luminaire Lumens: 3398.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3187	3187	3187
5°	3197	3193	3195
10°	3217	3213	3215
15°	3242	3239	3239
20°	3270	3267	3266
25°	3299	3293	3293
30°	3323	3316	3315
35°	3332	3332	3328
40°	3310	3317	3310
45°	3245	3253	3249
50°	3136	3141	3132
55°	2985	2978	2972
60°	2771	2765	2743
65°	2475	2472	2445
70°	2116	2103	2057
75°	1685	1637	1587
80°	1201	1176	1116
85°	781	781	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	3.3
10°-20°	328.5	9.7
20°-30°	511.6	15.1
30°-40°	633.1	18.6
40°-50°	656.5	19.3
50°-60°	565.9	16.7
60°-70°	384.7	11.3
70°-80°	172.2	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°	952.7	28.0
0°-40°	1585.9	46.7
0°-60°	2808.3	82.6
0°-90°	3398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1184	1181	1182	1182	1183	113
15°	1164	1162	1163	1162	1163	329
25°	1111	1110	1109	1109	1109	512
35°	1014	1013	1014	1013	1013	634
45°	853	852	855	853	854	656
55°	636	634	635	634	634	567
65°	389	392	388	387	384	386
75°	162	162	157	157	153	174
85°	25	26	25	24	24	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.4	1184.4	1184.4	1184.4	1184.4
2.5°	1185.9	1183.6	1183.6	1184.0	1185.1
5°	1183.6	1181.2	1182.0	1181.6	1182.8
7.5°	1180.4	1178.4	1179.6	1178.8	1179.6
10°	1177.2	1175.3	1175.7	1175.3	1176.4
12.5°	1171.7	1169.3	1170.1	1170.1	1170.5
15°	1163.8	1161.8	1162.6	1161.8	1162.6
17.5°	1154.3	1151.9	1152.3	1151.9	1152.7
20°	1142.0	1140.5	1140.9	1140.1	1140.5
22.5°	1128.2	1126.2	1126.6	1125.8	1125.8
25°	1111.2	1109.6	1109.2	1108.8	1109.2
27.5°	1091.4	1089.4	1089.4	1089.1	1089.1
30°	1069.3	1067.3	1067.3	1066.9	1066.9
32.5°	1043.2	1042.4	1042.8	1042.0	1041.6
35°	1014.3	1013.1	1014.3	1012.7	1013.1
37.5°	980.7	979.1	981.5	979.9	980.3
40°	942.3	941.6	944.3	943.1	942.3
42.5°	899.6	899.6	900.8	901.2	900.4
45°	852.6	851.8	854.9	853.0	853.8
47.5°	802.0	800.8	803.1	802.8	802.4
50°	749.0	748.2	750.2	748.2	748.2
52.5°	694.0	693.6	694.0	692.0	691.6
55°	636.3	633.9	634.7	633.5	633.5
57.5°	576.2	573.4	573.8	573.4	573.8
60°	514.9	514.1	513.7	511.7	509.7
62.5°	452.0	452.8	452.4	449.6	447.6
65°	388.7	391.9	388.3	387.1	384.0
67.5°	329.0	330.2	327.8	325.1	321.5
70°	268.9	271.3	267.3	264.6	261.4
72.5°	211.6	213.1	209.6	208.0	204.0
75°	162.1	162.5	157.4	156.6	152.6
77.5°	115.5	117.1	113.1	113.1	109.1
80°	77.5	80.3	75.9	74.7	72.0
82.5°	48.6	49.0	47.8	46.7	45.5
85°	25.3	26.1	25.3	24.5	24.5
87.5°	9.5	9.9	9.5	9.1	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)