

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: P413080

Luminaire Tested: **22PD-40-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413080
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-L940
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

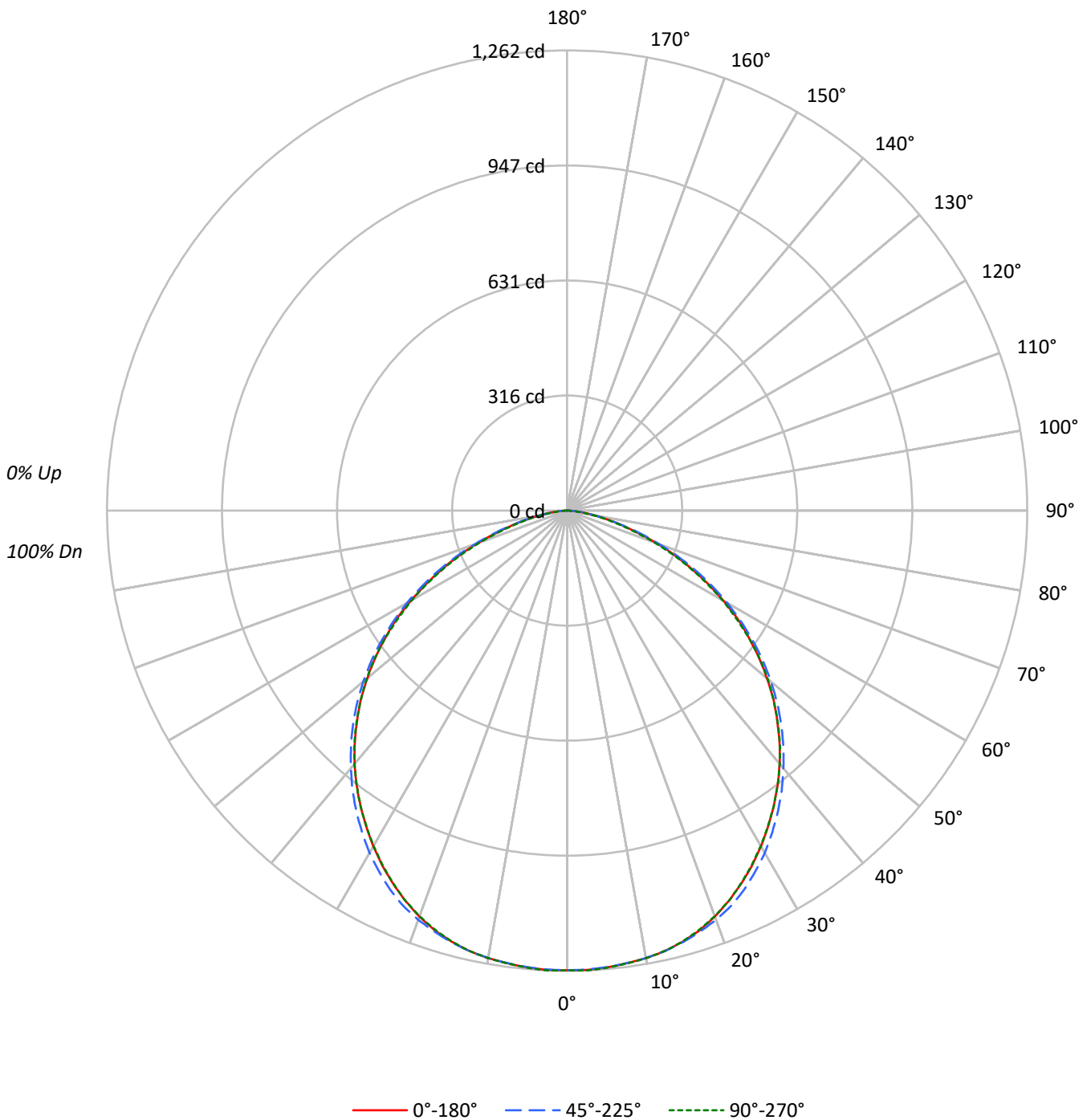
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3387.0 lumens
Efficiency: N/A
Efficacy: 100.2 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 (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

TEST NUMBER: P413080
CATALOG NUMBER: 22PD-40-PC3-L940

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°	3393	3393	3393
5°	3397	3395	3399
10°	3406	3404	3406
15°	3410	3414	3409
20°	3392	3420	3390
25°	3353	3408	3350
30°	3303	3368	3298
35°	3246	3310	3246
40°	3185	3241	3185
45°	3101	3162	3106
50°	2995	3054	3007
55°	2856	2913	2856
60°	2663	2730	2646
65°	2390	2474	2359
70°	2045	2117	1984
75°	1622	1668	1539
80°	1162	1206	1106
85°	769	794	719



TEST NUMBER: P413080

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	3.5
10°-20°	345.5	10.2
20°-30°	524.2	15.5
30°-40°	626.0	18.5
40°-50°	636.7	18.8
50°-60°	550.7	16.3
60°-70°	378.9	11.2
70°-80°	172.0	5.1
80°-90°	33.3	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°	989.4	29.2
0°-40°	1615.4	47.7
0°-60°	2802.8	82.8
0°-90°	3387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1258	1256	1257	1257	1258	120
15°	1224	1225	1226	1224	1224	345
25°	1129	1139	1148	1137	1128	520
35°	988	1006	1008	1004	988	618
45°	815	830	831	830	816	628
55°	609	619	621	620	609	544
65°	375	386	389	385	370	372
75°	156	162	160	159	148	168
85°	25	26	26	25	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260.8	1260.8	1260.8	1260.8	1260.8
2.5°	1260.8	1259.2	1259.6	1260.0	1262.4
5°	1257.6	1256.4	1256.8	1256.8	1258.4
7.5°	1252.4	1251.9	1251.9	1251.5	1252.8
10°	1246.3	1245.5	1245.9	1245.5	1246.3
12.5°	1237.1	1237.1	1237.5	1236.3	1237.1
15°	1223.9	1224.7	1225.5	1223.5	1223.5
17.5°	1207.0	1209.0	1211.0	1207.4	1205.4
20°	1184.6	1189.4	1194.2	1188.6	1183.8
22.5°	1158.5	1166.5	1173.8	1164.9	1158.5
25°	1129.2	1139.3	1147.7	1137.3	1128.4
27.5°	1097.6	1108.8	1116.8	1108.0	1096.0
30°	1063.1	1076.7	1083.9	1075.5	1061.5
32.5°	1026.2	1042.2	1046.6	1041.4	1025.4
35°	988.1	1005.7	1007.7	1004.1	988.1
37.5°	948.4	965.2	966.8	964.8	948.4
40°	906.7	922.3	922.7	922.7	906.7
42.5°	862.2	877.4	877.4	877.0	863.4
45°	814.8	829.7	830.9	830.1	816.1
47.5°	767.9	779.2	781.2	779.6	767.1
50°	715.4	727.0	729.4	727.8	718.2
52.5°	663.3	674.1	676.5	675.3	664.5
55°	608.7	619.2	620.8	619.6	608.7
57.5°	556.2	563.0	564.6	562.2	548.6
60°	494.8	504.5	507.3	504.5	491.6
62.5°	435.5	445.9	448.3	444.3	430.7
65°	375.3	385.8	388.6	385.4	370.5
67.5°	318.4	326.0	328.4	324.8	311.2
70°	259.9	269.5	269.1	264.3	252.2
72.5°	202.1	215.3	212.9	210.1	196.9
75°	156.0	162.0	160.4	158.8	148.0
77.5°	111.5	118.7	114.7	115.1	105.9
80°	75.0	81.8	77.8	76.2	71.4
82.5°	47.7	50.5	49.7	48.9	44.5
85°	24.9	26.5	25.7	24.9	23.3
87.5°	9.6	10.4	9.6	9.6	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)