

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: P413081

Luminaire Tested: **22PD-40-PC3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413081
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-L950
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

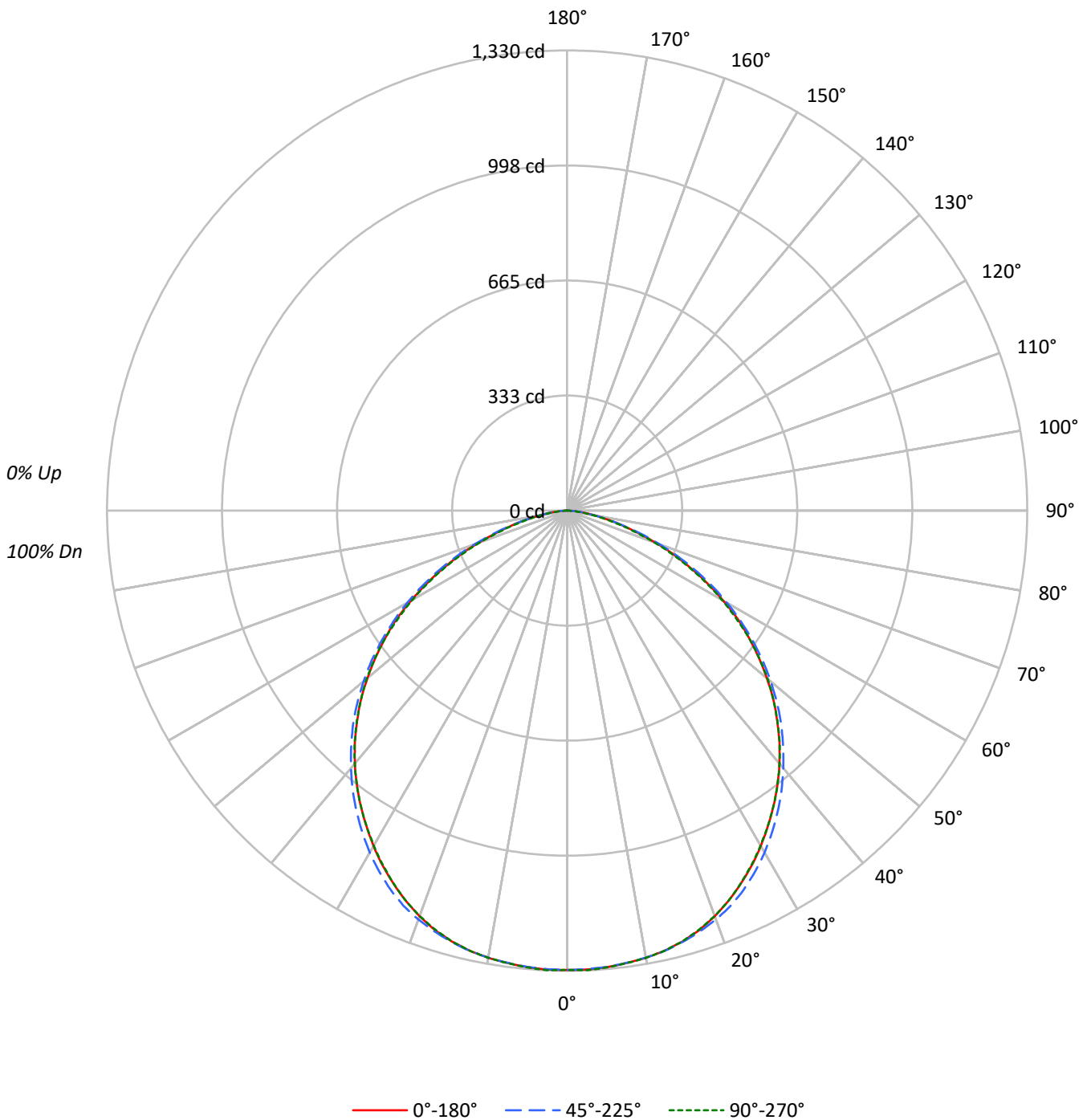
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3567.0 lumens
Efficiency: N/A
Efficacy: 105.5 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

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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°	3573	3573	3573
5°	3578	3575	3580
10°	3587	3585	3587
15°	3591	3595	3590
20°	3572	3602	3570
25°	3531	3589	3529
30°	3479	3547	3474
35°	3418	3486	3418
40°	3354	3414	3354
45°	3266	3330	3271
50°	3154	3216	3167
55°	3008	3067	3008
60°	2805	2875	2787
65°	2517	2606	2485
70°	2153	2230	2090
75°	1708	1756	1620
80°	1224	1269	1165
85°	809	834	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.5
10°-20°	363.9	10.2
20°-30°	552.1	15.5
30°-40°	659.3	18.5
40°-50°	670.5	18.8
50°-60°	580.0	16.3
60°-70°	399.1	11.2
70°-80°	181.1	5.1
80°-90°	35.1	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°	1041.9	29.2
0°-40°	1701.2	47.7
0°-60°	2951.7	82.8
0°-90°	3567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1324	1323	1324	1324	1325	126
15°	1289	1290	1291	1288	1288	364
25°	1189	1200	1209	1198	1188	548
35°	1041	1059	1061	1058	1041	651
45°	858	874	875	874	859	662
55°	641	652	654	652	641	573
65°	395	406	409	406	390	392
75°	164	171	169	167	156	177
85°	26	28	27	26	24	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.8	1327.8	1327.8	1327.8	1327.8
2.5°	1327.8	1326.1	1326.5	1326.9	1329.5
5°	1324.4	1323.1	1323.6	1323.6	1325.2
7.5°	1318.9	1318.5	1318.5	1318.1	1319.3
10°	1312.6	1311.7	1312.1	1311.7	1312.6
12.5°	1302.9	1302.9	1303.3	1302.0	1302.9
15°	1288.9	1289.8	1290.6	1288.5	1288.5
17.5°	1271.2	1273.3	1275.4	1271.6	1269.5
20°	1247.5	1252.6	1257.7	1251.8	1246.7
22.5°	1220.1	1228.5	1236.1	1226.8	1220.1
25°	1189.3	1199.8	1208.7	1197.7	1188.4
27.5°	1155.9	1167.7	1176.2	1166.9	1154.2
30°	1119.6	1133.9	1141.5	1132.7	1117.9
32.5°	1080.7	1097.6	1102.3	1096.8	1079.9
35°	1040.6	1059.2	1061.3	1057.5	1040.6
37.5°	998.8	1016.5	1018.2	1016.1	998.8
40°	954.9	971.3	971.8	971.8	954.9
42.5°	908.0	924.0	924.0	923.6	909.3
45°	858.2	873.8	875.0	874.2	859.4
47.5°	808.7	820.6	822.7	821.0	807.9
50°	753.4	765.7	768.2	766.5	756.4
52.5°	698.5	709.9	712.5	711.2	699.8
55°	641.1	652.1	653.8	652.5	641.1
57.5°	585.8	592.9	594.6	592.1	577.7
60°	521.1	531.3	534.2	531.3	517.8
62.5°	458.6	469.6	472.2	467.9	453.6
65°	395.3	406.3	409.2	405.8	390.2
67.5°	335.3	343.3	345.9	342.1	327.7
70°	273.7	283.8	283.4	278.3	265.6
72.5°	212.8	226.8	224.3	221.3	207.4
75°	164.3	170.6	168.9	167.2	155.8
77.5°	117.4	125.0	120.8	121.2	111.5
80°	79.0	86.2	81.9	80.2	75.2
82.5°	50.3	53.2	52.4	51.5	46.9
85°	26.2	27.9	27.0	26.2	24.5
87.5°	10.1	11.0	10.1	10.1	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)