

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: P413098

Luminaire Tested: **22PD-50-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413098
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-50-PC3-L940
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

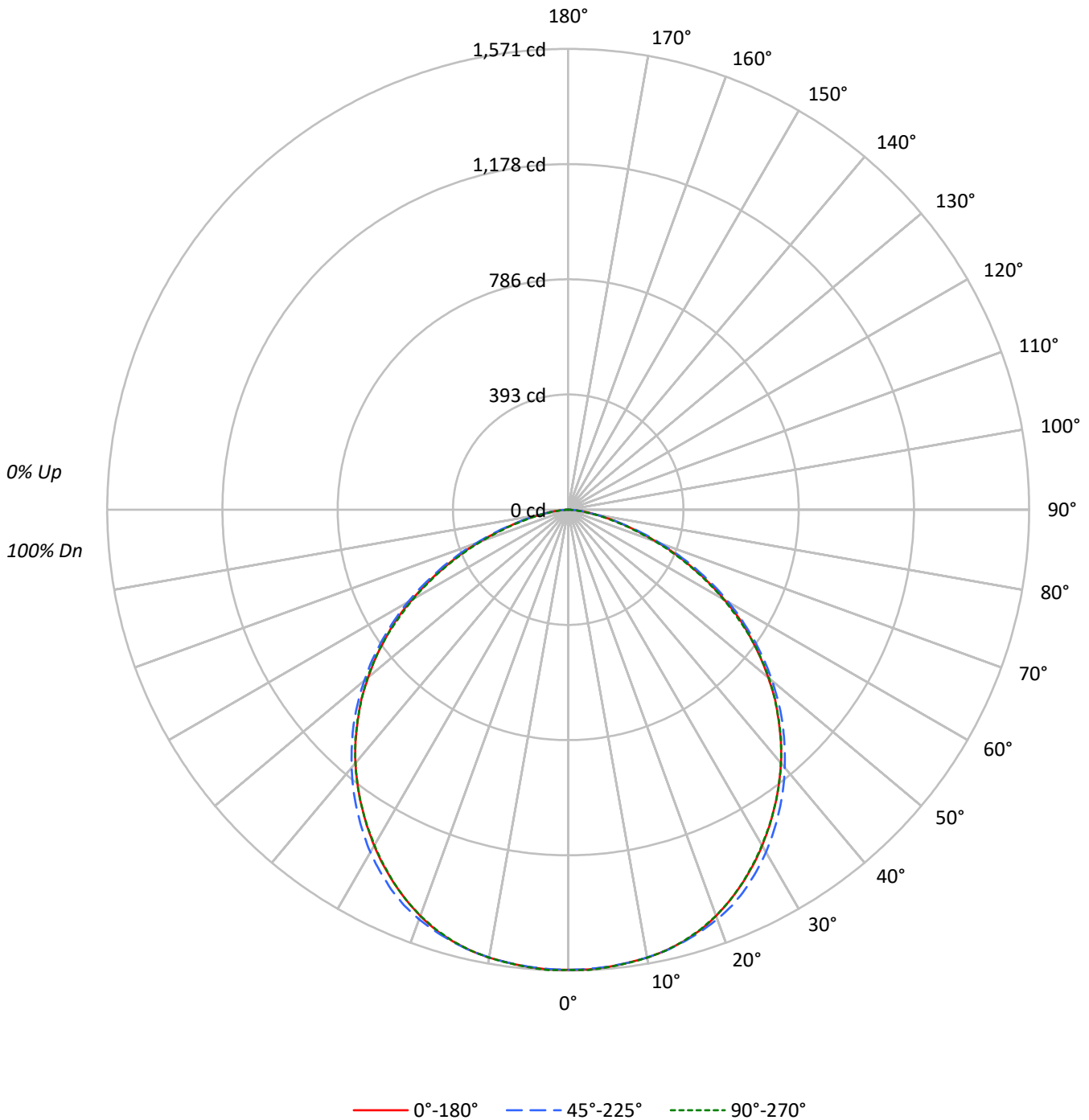
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4214.0 lumens
Efficiency: N/A
Efficacy: 99.2 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): 42.5
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°	4221	4221	4221
5°	4226	4224	4229
10°	4237	4236	4237
15°	4242	4248	4241
20°	4220	4255	4218
25°	4172	4240	4169
30°	4110	4190	4103
35°	4038	4119	4038
40°	3963	4033	3963
45°	3858	3934	3864
50°	3726	3799	3741
55°	3553	3623	3553
60°	3314	3397	3292
65°	2974	3079	2935
70°	2544	2634	2469
75°	2018	2075	1914
80°	1446	1500	1376
85°	954	985	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	3.5
10°-20°	429.9	10.2
20°-30°	652.2	15.5
30°-40°	778.9	18.5
40°-50°	792.1	18.8
50°-60°	685.2	16.3
60°-70°	471.5	11.2
70°-80°	214.0	5.1
80°-90°	41.4	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°	1230.9	29.2
0°-40°	2009.8	47.7
0°-60°	3487.1	82.8
0°-90°	4214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1569	1569	1569	1569	1569	
5°	1565	1563	1564	1564	1566	149
15°	1523	1524	1525	1522	1522	429
25°	1405	1417	1428	1415	1404	647
35°	1229	1251	1254	1249	1229	769
45°	1014	1032	1034	1033	1015	782
55°	757	770	772	771	757	677
65°	467	480	484	480	461	463
75°	194	202	200	198	184	209
85°	31	33	32	31	29	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1568.6	1568.6	1568.6	1568.6	1568.6
2.5°	1568.6	1566.6	1567.1	1567.6	1570.6
5°	1564.6	1563.1	1563.6	1563.6	1565.6
7.5°	1558.1	1557.6	1557.6	1557.1	1558.6
10°	1550.7	1549.7	1550.2	1549.7	1550.7
12.5°	1539.2	1539.2	1539.7	1538.2	1539.2
15°	1522.7	1523.7	1524.7	1522.2	1522.2
17.5°	1501.8	1504.3	1506.7	1502.3	1499.8
20°	1473.8	1479.8	1485.8	1478.8	1472.8
22.5°	1441.4	1451.4	1460.3	1449.4	1441.4
25°	1405.0	1417.4	1427.9	1414.9	1404.0
27.5°	1365.6	1379.5	1389.5	1378.5	1363.6
30°	1322.6	1339.6	1348.6	1338.1	1320.6
32.5°	1276.7	1296.7	1302.2	1295.7	1275.7
35°	1229.3	1251.3	1253.8	1249.3	1229.3
37.5°	1180.0	1200.9	1202.9	1200.4	1180.0
40°	1128.1	1147.5	1148.0	1148.0	1128.1
42.5°	1072.7	1091.6	1091.6	1091.1	1074.2
45°	1013.8	1032.3	1033.8	1032.8	1015.3
47.5°	955.4	969.4	971.9	969.9	954.4
50°	890.1	904.5	907.5	905.5	893.6
52.5°	825.2	838.7	841.7	840.2	826.7
55°	757.4	770.3	772.3	770.8	757.4
57.5°	692.0	700.5	702.5	699.5	682.5
60°	615.7	627.6	631.1	627.6	611.7
62.5°	541.8	554.8	557.8	552.8	535.8
65°	467.0	480.0	483.5	479.5	461.0
67.5°	396.1	405.6	408.6	404.1	387.2
70°	323.3	335.3	334.8	328.8	313.8
72.5°	251.5	267.9	264.9	261.4	245.0
75°	194.1	201.6	199.6	197.6	184.1
77.5°	138.7	147.7	142.7	143.2	131.7
80°	93.3	101.8	96.8	94.8	88.8
82.5°	59.4	62.9	61.9	60.9	55.4
85°	30.9	32.9	31.9	30.9	28.9
87.5°	12.0	13.0	12.0	12.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)