

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: P413087

Luminaire Tested: **22PD-45-PC3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413087
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-45-PC3-L930
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

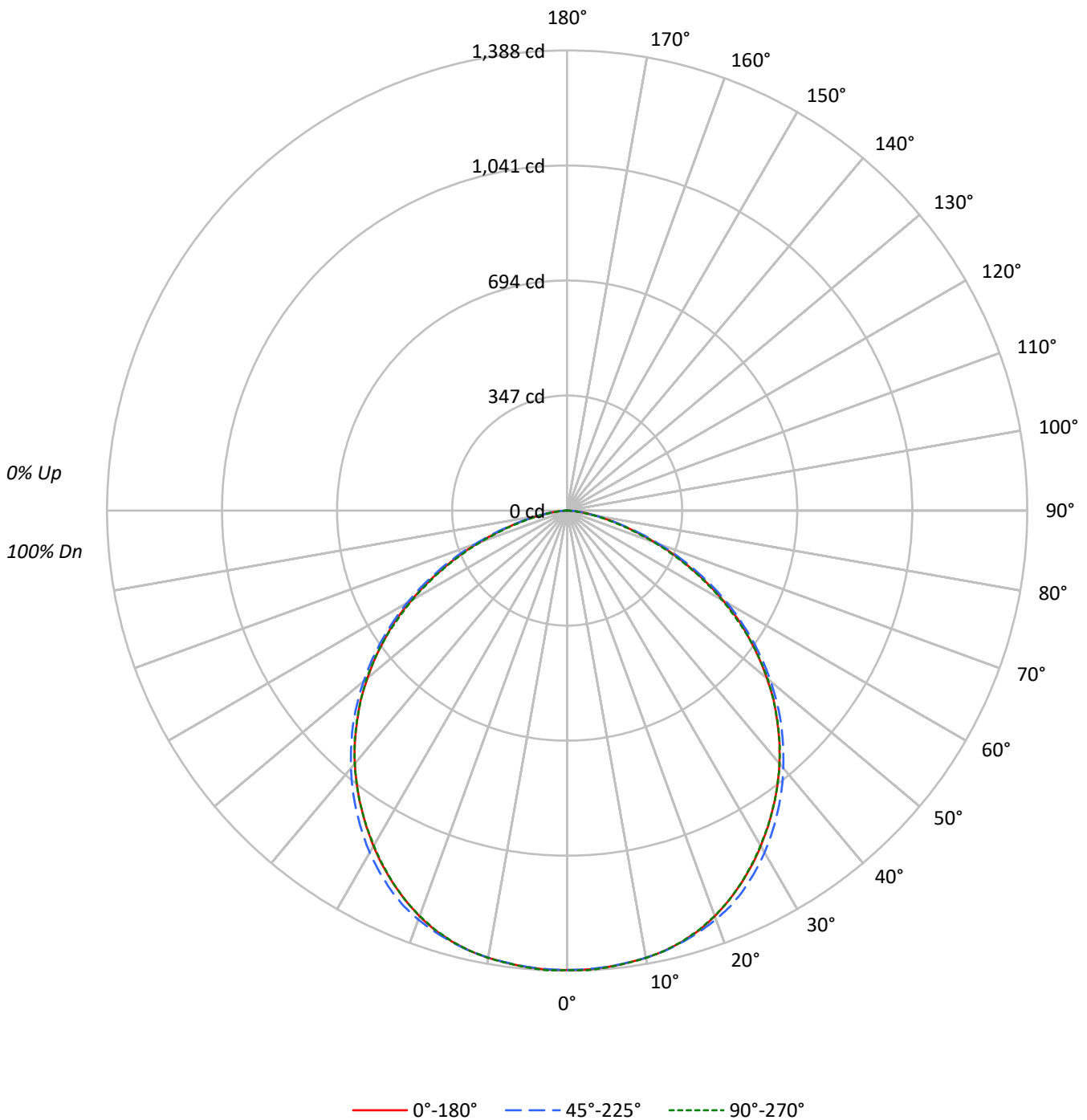
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3723.0 lumens
Efficiency: N/A
Efficacy: 97.5 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): 38.2
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°	3729	3729	3729
5°	3734	3732	3736
10°	3744	3742	3744
15°	3748	3753	3747
20°	3729	3759	3726
25°	3686	3746	3683
30°	3631	3702	3626
35°	3568	3639	3568
40°	3501	3563	3501
45°	3409	3476	3414
50°	3292	3357	3305
55°	3139	3201	3139
60°	2927	3001	2908
65°	2627	2720	2593
70°	2247	2327	2182
75°	1783	1833	1692
80°	1277	1325	1216
85°	843	871	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	3.5
10°-20°	379.8	10.2
20°-30°	576.2	15.5
30°-40°	688.1	18.5
40°-50°	699.8	18.8
50°-60°	605.3	16.3
60°-70°	416.5	11.2
70°-80°	189.1	5.1
80°-90°	36.6	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°	1087.5	29.2
0°-40°	1775.6	47.7
0°-60°	3080.8	82.8
0°-90°	3723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1382	1381	1381	1381	1383	132
15°	1345	1346	1347	1345	1345	379
25°	1241	1252	1262	1250	1240	572
35°	1086	1106	1108	1104	1086	679
45°	896	912	913	912	897	691
55°	669	681	682	681	669	598
65°	413	424	427	424	407	409
75°	172	178	176	175	163	184
85°	27	29	28	27	26	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.8	1385.8	1385.8	1385.8	1385.8
2.5°	1385.8	1384.1	1384.5	1385.0	1387.6
5°	1382.3	1381.0	1381.4	1381.4	1383.2
7.5°	1376.6	1376.1	1376.1	1375.7	1377.0
10°	1370.0	1369.1	1369.5	1369.1	1370.0
12.5°	1359.8	1359.8	1360.3	1359.0	1359.8
15°	1345.3	1346.2	1347.1	1344.9	1344.9
17.5°	1326.8	1329.0	1331.2	1327.2	1325.0
20°	1302.1	1307.4	1312.7	1306.5	1301.2
22.5°	1273.4	1282.3	1290.2	1280.5	1273.4
25°	1241.3	1252.3	1261.5	1250.1	1240.4
27.5°	1206.4	1218.8	1227.6	1217.9	1204.7
30°	1168.5	1183.5	1191.5	1182.2	1166.8
32.5°	1128.0	1145.6	1150.5	1144.7	1127.1
35°	1086.1	1105.5	1107.7	1103.7	1086.1
37.5°	1042.5	1061.0	1062.7	1060.5	1042.5
40°	996.6	1013.8	1014.3	1014.3	996.6
42.5°	947.7	964.4	964.4	964.0	949.0
45°	895.7	912.0	913.3	912.4	897.0
47.5°	844.1	856.5	858.7	856.9	843.2
50°	786.4	799.2	801.8	800.0	789.5
52.5°	729.1	741.0	743.6	742.3	730.4
55°	669.1	680.6	682.3	681.0	669.1
57.5°	611.4	618.9	620.6	618.0	603.0
60°	543.9	554.5	557.6	554.5	540.4
62.5°	478.7	490.2	492.8	488.4	473.4
65°	412.6	424.0	427.1	423.6	407.3
67.5°	350.0	358.4	361.0	357.0	342.1
70°	285.6	296.2	295.8	290.5	277.3
72.5°	222.2	236.7	234.1	231.0	216.4
75°	171.5	178.1	176.3	174.6	162.7
77.5°	122.5	130.5	126.1	126.5	116.4
80°	82.4	89.9	85.5	83.8	78.5
82.5°	52.5	55.5	54.7	53.8	48.9
85°	27.3	29.1	28.2	27.3	25.6
87.5°	10.6	11.5	10.6	10.6	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)