

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: P413075

Luminaire Tested: **22PD-40-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413075
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-L840
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

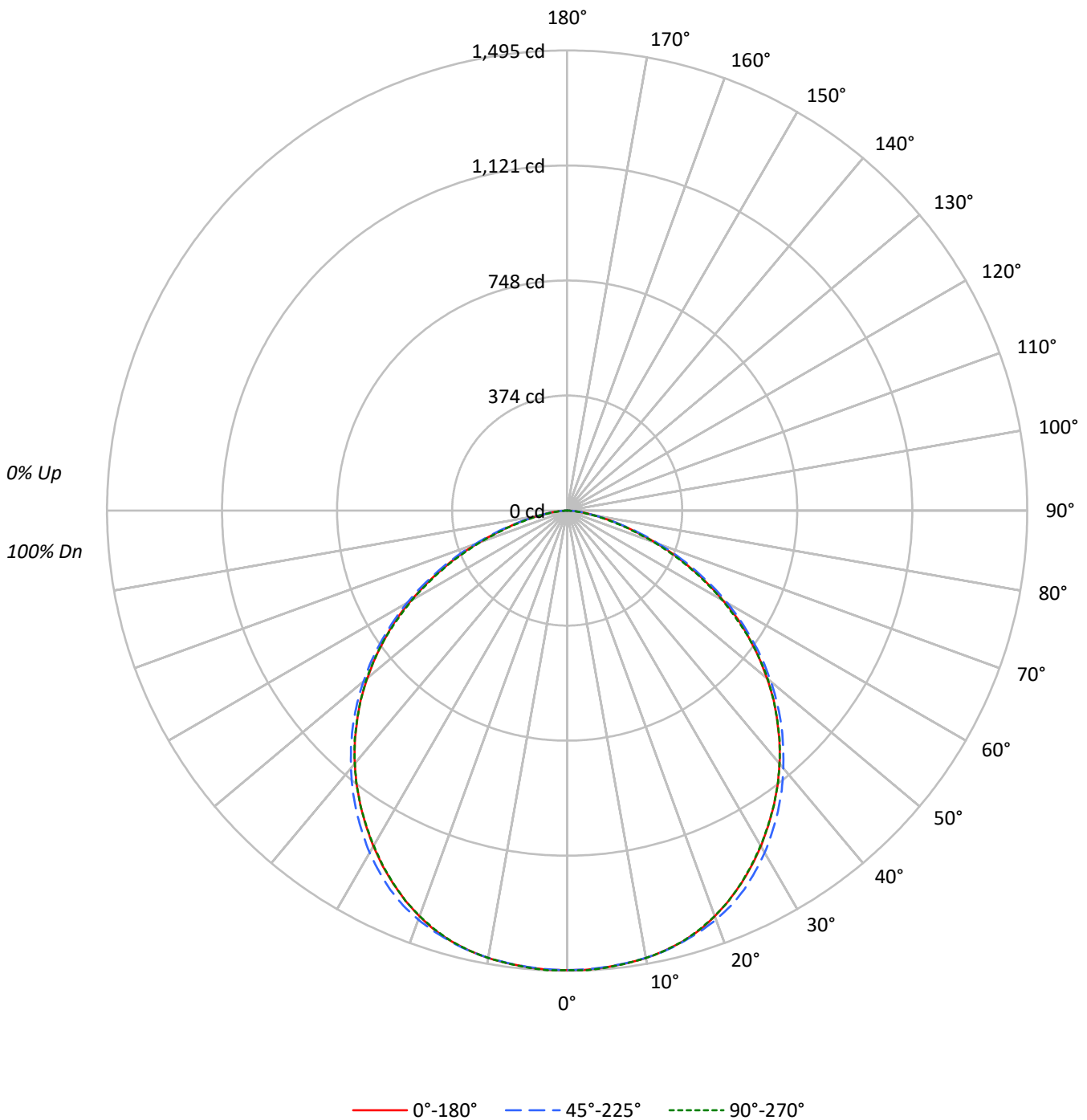
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4011.0 lumens
Efficiency: N/A
Efficacy: 118.7 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 (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°	4018	4018	4018
5°	4023	4020	4025
10°	4033	4032	4033
15°	4038	4043	4036
20°	4017	4050	4015
25°	3971	4035	3968
30°	3912	3988	3906
35°	3844	3920	3844
40°	3772	3838	3772
45°	3672	3745	3678
50°	3547	3616	3561
55°	3382	3449	3382
60°	3154	3233	3133
65°	2830	2930	2794
70°	2421	2507	2350
75°	1920	1975	1822
80°	1376	1427	1309
85°	908	939	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	3.5
10°-20°	409.2	10.2
20°-30°	620.8	15.5
30°-40°	741.4	18.5
40°-50°	754.0	18.8
50°-60°	652.2	16.3
60°-70°	448.8	11.2
70°-80°	203.7	5.1
80°-90°	39.4	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°	1171.6	29.2
0°-40°	1913.0	47.7
0°-60°	3319.1	82.8
0°-90°	4011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1489	1488	1488	1488	1490	142
15°	1449	1450	1451	1449	1449	409
25°	1337	1349	1359	1347	1336	616
35°	1170	1191	1193	1189	1170	732
45°	965	982	984	983	966	744
55°	721	733	735	734	721	644
65°	444	457	460	456	439	441
75°	185	192	190	188	175	199
85°	29	31	30	29	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1493.0	1493.0	1493.0	1493.0	1493.0
2.5°	1493.0	1491.1	1491.6	1492.1	1494.9
5°	1489.2	1487.8	1488.3	1488.3	1490.2
7.5°	1483.1	1482.6	1482.6	1482.1	1483.6
10°	1476.0	1475.0	1475.5	1475.0	1476.0
12.5°	1465.0	1465.0	1465.5	1464.1	1465.0
15°	1449.4	1450.3	1451.3	1448.9	1448.9
17.5°	1429.4	1431.8	1434.2	1429.9	1427.5
20°	1402.8	1408.5	1414.2	1407.6	1401.9
22.5°	1372.0	1381.4	1390.0	1379.6	1372.0
25°	1337.3	1349.2	1359.1	1346.8	1336.3
27.5°	1299.8	1313.1	1322.6	1312.1	1297.9
30°	1258.9	1275.1	1283.6	1273.7	1257.0
32.5°	1215.2	1234.2	1239.5	1233.3	1214.3
35°	1170.1	1191.0	1193.4	1189.1	1170.1
37.5°	1123.1	1143.1	1145.0	1142.6	1123.1
40°	1073.7	1092.2	1092.7	1092.7	1073.7
42.5°	1021.0	1039.1	1039.1	1038.6	1022.4
45°	965.0	982.5	984.0	983.0	966.4
47.5°	909.4	922.7	925.1	923.2	908.5
50°	847.2	861.0	863.8	861.9	850.5
52.5°	785.5	798.3	801.1	799.7	786.9
55°	720.9	733.2	735.1	733.7	720.9
57.5°	658.7	666.7	668.6	665.8	649.6
60°	586.0	597.4	600.7	597.4	582.2
62.5°	515.7	528.1	530.9	526.2	510.0
65°	444.5	456.8	460.2	456.4	438.8
67.5°	377.1	386.1	388.9	384.7	368.5
70°	307.7	319.1	318.6	313.0	298.7
72.5°	239.3	255.0	252.2	248.8	233.2
75°	184.7	191.9	190.0	188.1	175.2
77.5°	132.0	140.6	135.8	136.3	125.4
80°	88.8	96.9	92.1	90.2	84.5
82.5°	56.5	59.8	58.9	57.9	52.7
85°	29.4	31.3	30.4	29.4	27.5
87.5°	11.4	12.3	11.4	11.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)