

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: P413212

Luminaire Tested: **24PD-50-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-50-PC3-L927
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

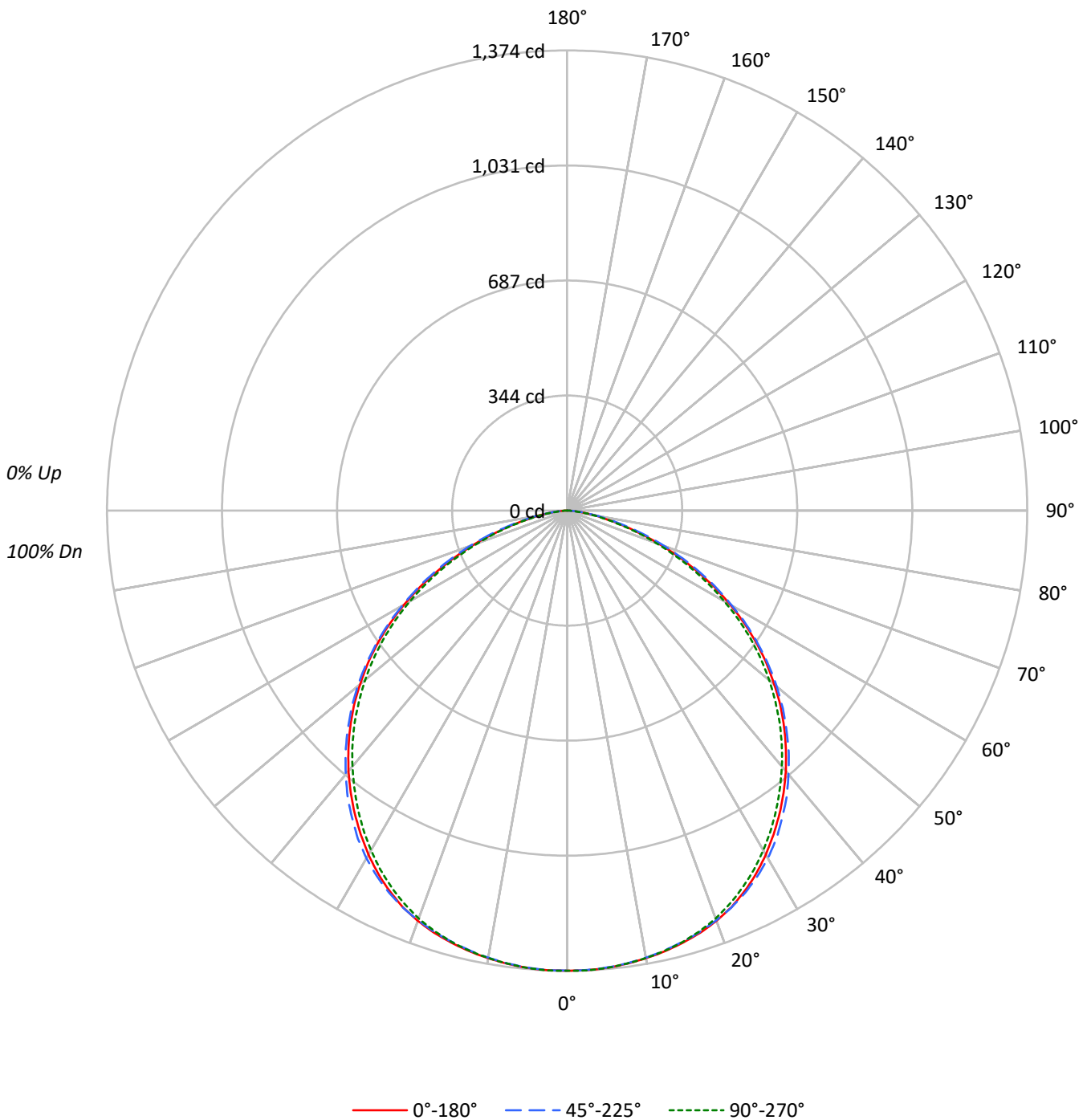
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3755.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	109	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	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1848	1848	1848
5°	1851	1850	1851
10°	1855	1852	1853
15°	1861	1857	1857
20°	1867	1864	1856
25°	1862	1868	1842
30°	1843	1862	1820
35°	1816	1839	1788
40°	1784	1805	1752
45°	1744	1762	1707
50°	1689	1709	1648
55°	1620	1635	1572
60°	1513	1530	1460
65°	1363	1397	1310
70°	1157	1208	1111
75°	896	961	855
80°	666	696	604
85°	411	440	381



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.5
10°-20°	376.7	10.0
20°-30°	576.9	15.4
30°-40°	694.1	18.5
40°-50°	707.8	18.8
50°-60°	613.6	16.3
60°-70°	425.4	11.3
70°-80°	194.3	5.2
80°-90°	35.9	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°	1084.0	28.9
0°-40°	1778.1	47.4
0°-60°	3099.4	82.5
0°-90°	3755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1370	1370	1370	1369	1371	130
15°	1336	1335	1333	1332	1333	377
25°	1254	1257	1258	1247	1241	577
35°	1106	1117	1120	1105	1089	691
45°	916	928	926	914	897	706
55°	691	695	697	680	670	615
65°	428	437	439	424	411	423
75°	172	182	185	179	164	189
85°	27	27	28	27	25	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1373.8	1373.8	1373.0	1372.2	1374.5
5°	1370.3	1370.3	1369.6	1368.8	1370.7
7.5°	1365.0	1364.6	1363.9	1363.1	1364.3
10°	1357.4	1357.0	1355.5	1355.1	1356.6
12.5°	1347.9	1347.5	1345.2	1345.2	1346.4
15°	1335.7	1335.3	1333.1	1331.9	1333.4
17.5°	1322.0	1321.6	1319.0	1315.9	1316.7
20°	1303.8	1303.8	1301.8	1297.3	1296.1
22.5°	1281.7	1282.8	1282.8	1274.1	1270.6
25°	1253.9	1257.3	1258.5	1247.4	1241.0
27.5°	1222.3	1227.6	1230.7	1216.6	1208.2
30°	1186.2	1194.9	1198.7	1183.5	1171.3
32.5°	1146.6	1157.6	1162.2	1147.3	1131.7
35°	1105.5	1117.3	1119.6	1105.1	1088.7
37.5°	1061.7	1073.9	1076.9	1064.0	1043.8
40°	1015.7	1027.9	1027.9	1017.2	997.4
42.5°	967.0	979.9	979.5	966.6	948.7
45°	916.4	927.8	926.2	913.7	897.3
47.5°	864.2	871.5	873.4	858.5	842.9
50°	807.1	814.4	816.3	799.5	787.3
52.5°	750.8	755.4	758.0	738.6	729.9
55°	690.7	694.9	696.8	679.7	670.1
57.5°	627.1	632.5	634.8	617.6	607.0
60°	562.1	567.8	568.5	552.6	542.7
62.5°	495.9	503.5	505.0	489.0	477.2
65°	428.1	437.2	438.8	423.9	411.4
67.5°	360.4	372.6	372.9	360.8	345.9
70°	294.2	307.5	307.1	296.8	282.4
72.5°	231.0	243.2	245.8	236.3	222.2
75°	172.4	181.9	184.9	178.9	164.4
77.5°	122.5	131.3	134.0	128.2	117.6
80°	86.0	86.4	89.8	85.2	78.0
82.5°	53.3	52.5	53.7	51.8	47.6
85°	26.6	27.4	28.5	27.0	24.7
87.5°	9.1	9.5	10.3	10.3	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)