

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: P412411

Luminaire Tested: **22PD-50-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-50-PB1-L927
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

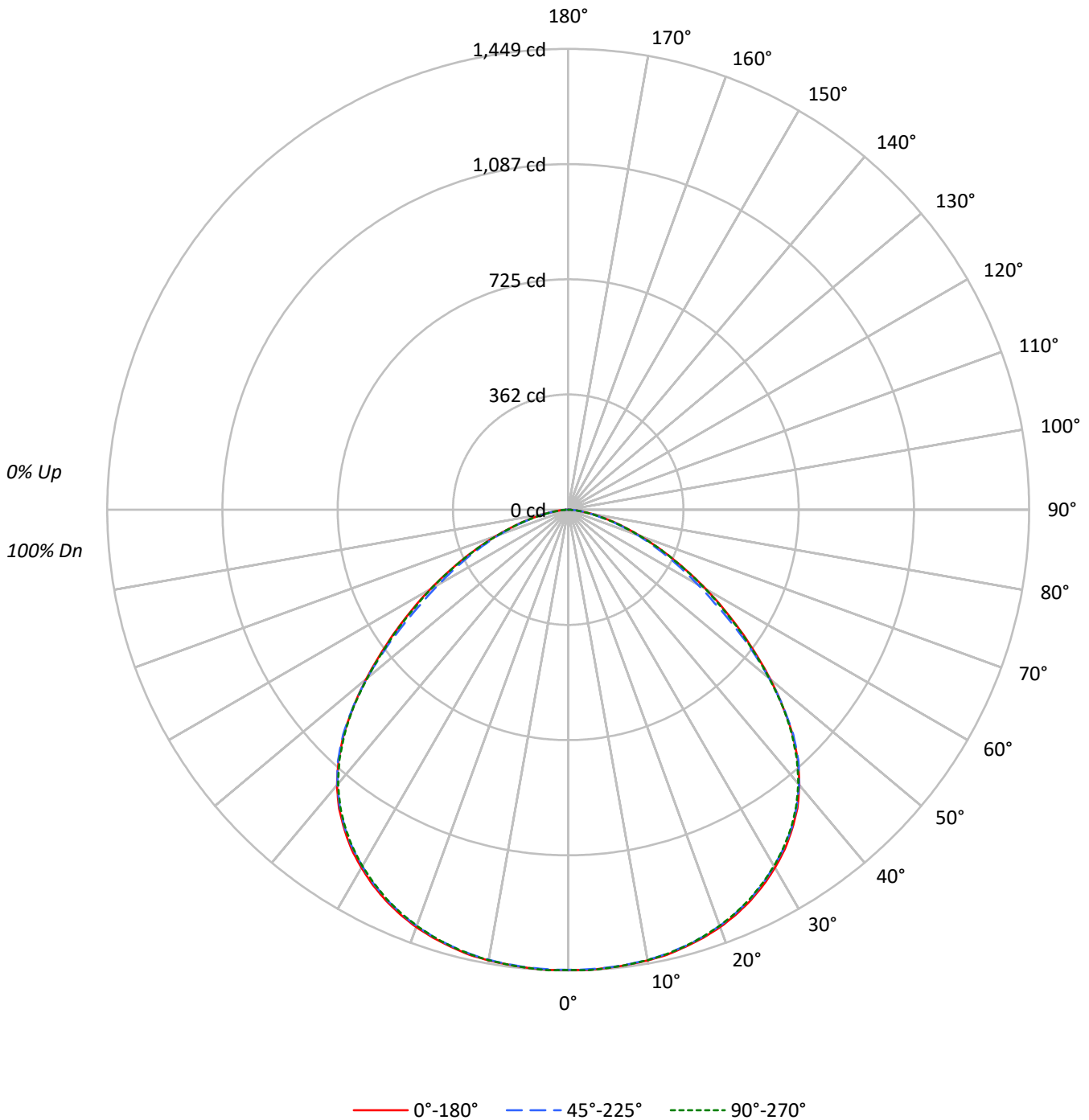
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3799.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
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 (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	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67		76	70	66		73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50		61	55	50		59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44		55	49	44		54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39		51	44	39		49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35		46	40	35		45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29		40	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3894	3894	3894
5°	3906	3903	3908
10°	3932	3927	3930
15°	3964	3958	3958
20°	4000	3989	3986
25°	4026	4013	4010
30°	4039	4022	4020
35°	4030	4019	4011
40°	3970	3966	3953
45°	3796	3808	3779
50°	3475	3456	3452
55°	3088	2979	3067
60°	2692	2528	2675
65°	2282	2160	2271
70°	1887	1810	1869
75°	1526	1429	1465
80°	1102	1068	1062
85°	719	719	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	3.6
10°-20°	401.6	10.6
20°-30°	623.1	16.4
30°-40°	764.1	20.1
40°-50°	763.8	20.1
50°-60°	578.6	15.2
60°-70°	347.0	9.1
70°-80°	152.8	4.0
80°-90°	30.3	0.8
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°	1162.4	30.6
0°-40°	1926.5	50.7
0°-60°	3268.9	86.0
0°-90°	3799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1446	1444	1445	1444	1447	138
15°	1423	1422	1421	1420	1421	402
25°	1356	1353	1352	1350	1350	625
35°	1227	1226	1223	1222	1221	766
45°	997	999	1000	998	993	764
55°	658	644	635	643	654	590
65°	358	346	339	345	357	358
75°	147	144	137	140	141	157
85°	23	24	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.0	1447.0	1447.0	1447.0	1447.0
2.5°	1448.4	1446.1	1446.6	1446.6	1449.3
5°	1446.1	1444.4	1444.8	1444.4	1446.6
7.5°	1443.0	1441.2	1441.7	1441.2	1442.6
10°	1439.0	1437.2	1437.2	1436.3	1438.1
12.5°	1433.6	1431.4	1430.5	1430.0	1431.4
15°	1422.9	1421.5	1420.6	1419.7	1420.6
17.5°	1411.2	1409.0	1408.1	1406.3	1408.1
20°	1396.9	1393.8	1392.9	1391.6	1392.0
22.5°	1378.1	1375.4	1374.1	1371.9	1372.8
25°	1355.8	1353.1	1351.7	1349.5	1350.4
27.5°	1329.8	1328.0	1324.9	1323.1	1323.5
30°	1299.8	1298.0	1294.5	1293.6	1293.6
32.5°	1266.7	1264.5	1261.3	1260.5	1260.0
35°	1226.9	1226.4	1223.3	1222.4	1221.1
37.5°	1183.5	1182.6	1179.0	1178.1	1176.8
40°	1130.2	1129.3	1128.9	1127.1	1125.3
42.5°	1068.5	1069.8	1070.7	1067.2	1063.6
45°	997.4	998.7	1000.5	997.8	992.9
47.5°	914.1	919.5	916.8	918.6	913.7
50°	830.0	830.0	825.5	827.3	824.6
52.5°	741.9	734.7	729.3	732.9	736.5
55°	658.2	643.9	634.9	643.4	653.7
57.5°	578.1	561.1	544.5	558.0	570.5
60°	500.2	480.6	469.8	479.7	497.1
62.5°	426.4	412.1	401.4	409.0	423.7
65°	358.4	345.9	339.2	345.0	356.6
67.5°	296.2	287.7	281.0	285.9	294.9
70°	239.8	237.6	230.0	232.2	237.6
72.5°	188.4	187.9	181.2	183.0	186.1
75°	146.8	143.6	137.4	139.6	140.9
77.5°	103.8	105.1	99.3	100.7	100.7
80°	71.1	73.4	68.9	68.0	68.5
82.5°	45.2	45.2	44.7	44.3	43.0
85°	23.3	24.2	23.3	22.4	22.4
87.5°	8.9	8.9	8.9	8.5	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)