

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: P412744

Luminaire Tested: **22PD-45-PP3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-45-PP3-L927
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

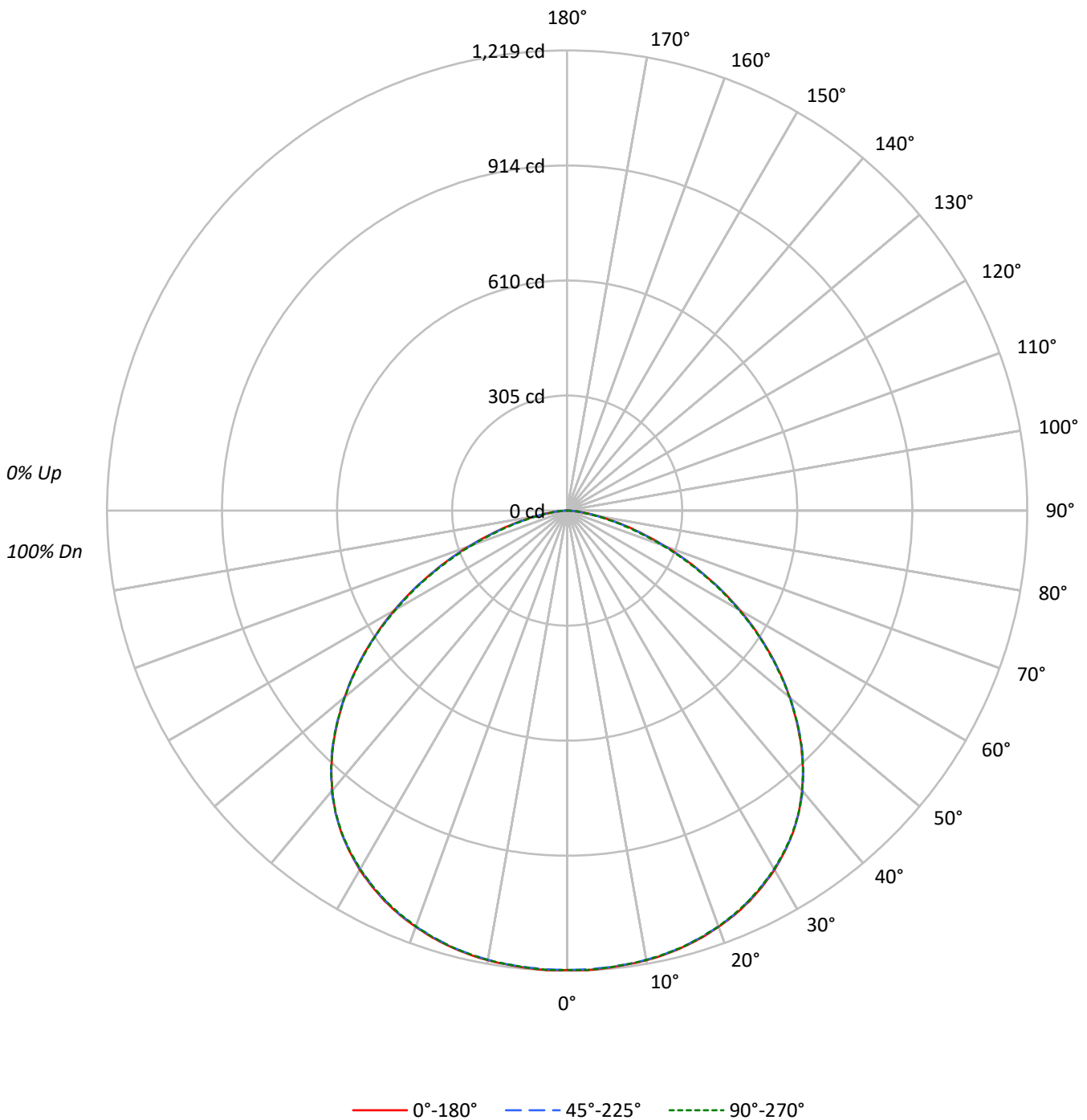
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3492.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
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 (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

TEST NUMBER: P412744
CATALOG NUMBER: 22PD-45-PP3-L927

Luminous Intensity Polar Plot





TEST NUMBER: P412744

CATALOG NUMBER: 22PD-45-PP3-L927

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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45					45			
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3275	3275	3275
5°	3286	3281	3283
10°	3306	3301	3304
15°	3332	3329	3329
20°	3361	3357	3356
25°	3390	3385	3385
30°	3415	3408	3407
35°	3424	3424	3420
40°	3402	3409	3402
45°	3334	3344	3339
50°	3222	3227	3219
55°	3068	3060	3054
60°	2848	2841	2819
65°	2544	2541	2513
70°	2174	2161	2113
75°	1732	1681	1631
80°	1235	1209	1147
85°	803	803	778



TEST NUMBER: P412744

CATALOG NUMBER: 22PD-45-PP3-L927

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.3
10°-20°	337.6	9.7
20°-30°	525.7	15.1
30°-40°	650.7	18.6
40°-50°	674.7	19.3
50°-60°	581.6	16.7
60°-70°	395.4	11.3
70°-80°	176.9	5.1
80°-90°	33.7	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°	979.1	28.0
0°-40°	1629.8	46.7
0°-60°	2886.0	82.6
0°-90°	3492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1216	1214	1215	1214	1216	116
15°	1196	1194	1195	1194	1195	338
25°	1142	1140	1140	1140	1140	527
35°	1042	1041	1042	1041	1041	651
45°	876	875	879	877	877	674
55°	654	651	652	651	651	583
65°	400	403	399	398	395	397
75°	167	167	162	161	157	179
85°	26	27	26	25	25	34
90°	0	0	0	0	0	



TEST NUMBER: P412744

CATALOG NUMBER: 22PD-45-PP3-L927

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1217.1	1217.1	1217.1	1217.1	1217.1
2.5°	1218.7	1216.3	1216.3	1216.7	1217.9
5°	1216.3	1213.9	1214.7	1214.3	1215.5
7.5°	1213.1	1211.0	1212.2	1211.4	1212.2
10°	1209.8	1207.8	1208.2	1207.8	1209.0
12.5°	1204.1	1201.7	1202.5	1202.5	1202.9
15°	1196.0	1194.0	1194.8	1194.0	1194.8
17.5°	1186.2	1183.8	1184.2	1183.8	1184.6
20°	1173.6	1172.0	1172.4	1171.6	1172.0
22.5°	1159.4	1157.4	1157.8	1157.0	1157.0
25°	1141.9	1140.3	1139.9	1139.5	1139.9
27.5°	1121.6	1119.6	1119.6	1119.2	1119.2
30°	1098.9	1096.8	1096.8	1096.4	1096.4
32.5°	1072.0	1071.2	1071.6	1070.8	1070.4
35°	1042.4	1041.2	1042.4	1040.7	1041.2
37.5°	1007.8	1006.2	1008.6	1007.0	1007.4
40°	968.4	967.6	970.4	969.2	968.4
42.5°	924.5	924.5	925.7	926.1	925.3
45°	876.2	875.3	878.6	876.6	877.4
47.5°	824.1	822.9	825.4	825.0	824.6
50°	769.7	768.9	770.9	768.9	768.9
52.5°	713.2	712.8	713.2	711.2	710.8
55°	653.9	651.4	652.2	651.0	651.0
57.5°	592.1	589.3	589.7	589.3	589.7
60°	529.1	528.3	527.9	525.9	523.8
62.5°	464.5	465.3	464.9	462.1	460.0
65°	399.5	402.7	399.1	397.8	394.6
67.5°	338.1	339.3	336.9	334.0	330.4
70°	276.3	278.8	274.7	271.9	268.6
72.5°	217.4	219.0	215.4	213.8	209.7
75°	166.6	167.0	161.7	160.9	156.9
77.5°	118.7	120.3	116.2	116.2	112.2
80°	79.7	82.5	78.0	76.8	74.0
82.5°	50.0	50.4	49.2	48.0	46.7
85°	26.0	26.8	26.0	25.2	25.2
87.5°	9.8	10.2	9.8	9.3	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)