

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: P412748

Luminaire Tested: **22PD-45-PP3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412748
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-L950
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

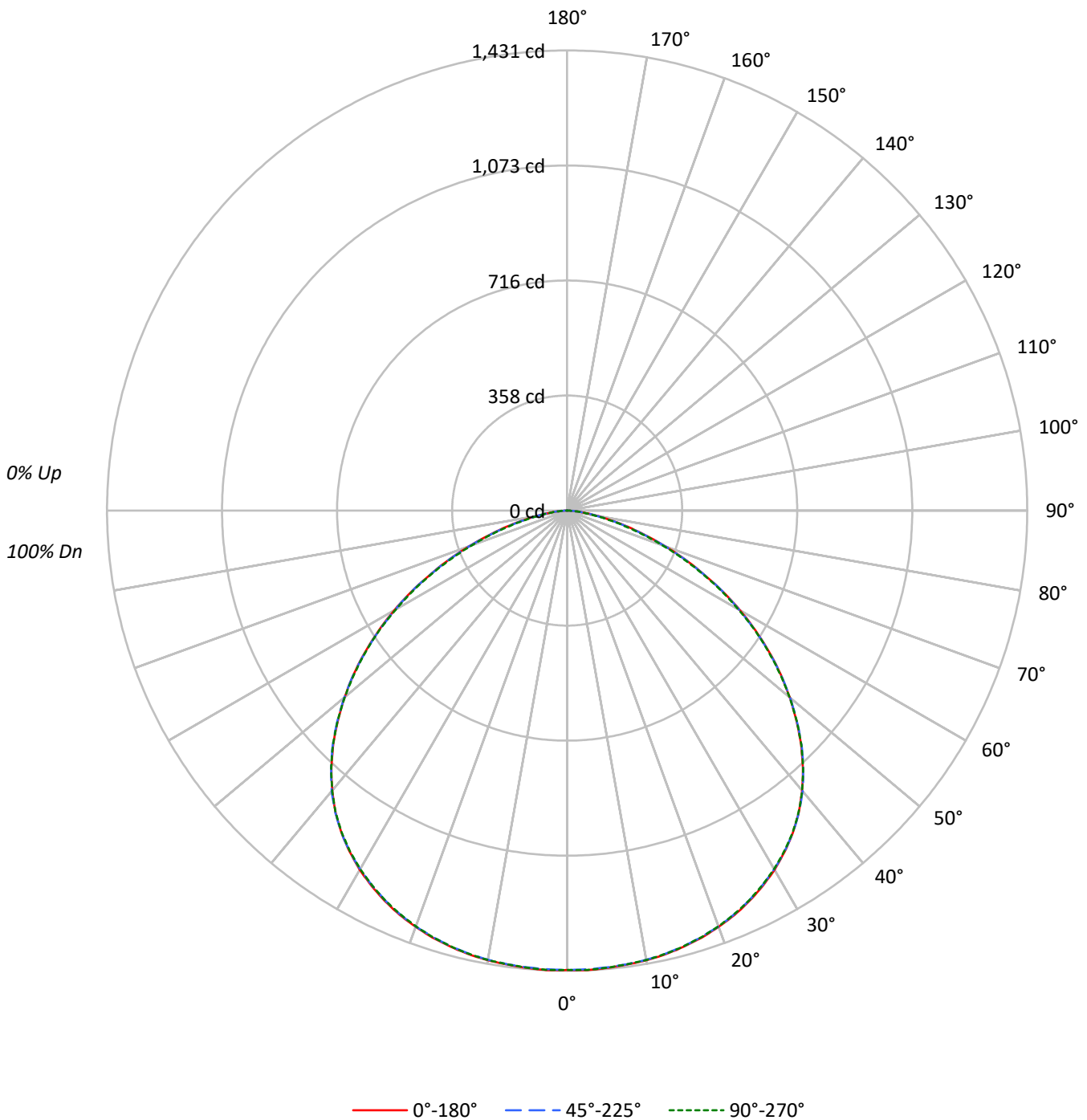
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4099.0 lumens
Efficiency: N/A
Efficacy: 107.3 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 (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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3845	3845	3845
5°	3857	3851	3854
10°	3880	3875	3878
15°	3911	3907	3907
20°	3945	3941	3940
25°	3980	3973	3973
30°	4008	4001	3999
35°	4020	4020	4015
40°	3993	4001	3993
45°	3914	3925	3919
50°	3782	3788	3778
55°	3601	3592	3585
60°	3343	3335	3309
65°	2986	2982	2949
70°	2552	2537	2481
75°	2034	1974	1914
80°	1449	1420	1345
85°	942	942	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	3.3
10°-20°	396.3	9.7
20°-30°	617.1	15.1
30°-40°	763.8	18.6
40°-50°	792.0	19.3
50°-60°	682.6	16.7
60°-70°	464.1	11.3
70°-80°	207.7	5.1
80°-90°	39.5	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°	1149.3	28.0
0°-40°	1913.1	46.7
0°-60°	3387.7	82.6
0°-90°	4099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1428	1425	1426	1425	1427	136
15°	1404	1402	1402	1402	1402	397
25°	1340	1338	1338	1338	1338	618
35°	1224	1222	1224	1222	1222	764
45°	1028	1028	1031	1029	1030	792
55°	768	765	766	764	764	684
65°	469	473	468	467	463	466
75°	196	196	190	189	184	210
85°	30	32	30	30	30	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1428.7	1428.7	1428.7	1428.7	1428.7
2.5°	1430.6	1427.7	1427.7	1428.2	1429.6
5°	1427.7	1424.9	1425.8	1425.3	1426.8
7.5°	1423.9	1421.5	1423.0	1422.0	1423.0
10°	1420.1	1417.7	1418.2	1417.7	1419.1
12.5°	1413.4	1410.6	1411.5	1411.5	1412.0
15°	1403.9	1401.5	1402.4	1401.5	1402.4
17.5°	1392.4	1389.6	1390.0	1389.6	1390.5
20°	1377.6	1375.7	1376.2	1375.3	1375.7
22.5°	1360.9	1358.6	1359.0	1358.1	1358.1
25°	1340.4	1338.5	1338.0	1337.6	1338.0
27.5°	1316.6	1314.2	1314.2	1313.7	1313.7
30°	1289.9	1287.5	1287.5	1287.0	1287.0
32.5°	1258.4	1257.4	1257.9	1257.0	1256.5
35°	1223.6	1222.1	1223.6	1221.7	1222.1
37.5°	1183.0	1181.1	1184.0	1182.1	1182.5
40°	1136.7	1135.8	1139.1	1137.7	1136.7
42.5°	1085.2	1085.2	1086.7	1087.1	1086.2
45°	1028.5	1027.5	1031.3	1028.9	1029.9
47.5°	967.4	966.0	968.8	968.4	967.9
50°	903.5	902.5	904.9	902.5	902.5
52.5°	837.2	836.7	837.2	834.8	834.3
55°	767.5	764.7	765.6	764.2	764.2
57.5°	695.0	691.7	692.2	691.7	692.2
60°	621.1	620.1	619.7	617.3	614.9
62.5°	545.2	546.2	545.7	542.4	540.0
65°	468.9	472.7	468.4	467.0	463.2
67.5°	396.9	398.3	395.5	392.1	387.8
70°	324.4	327.2	322.5	319.1	315.3
72.5°	255.2	257.1	252.8	250.9	246.1
75°	195.6	196.1	189.9	188.9	184.1
77.5°	139.3	141.2	136.4	136.4	131.7
80°	93.5	96.8	91.6	90.2	86.8
82.5°	58.7	59.2	57.7	56.3	54.9
85°	30.5	31.5	30.5	29.6	29.6
87.5°	11.4	11.9	11.4	11.0	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)