

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: P413090

Luminaire Tested: **22PD-45-PC3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413090
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-45-PC3-L950
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

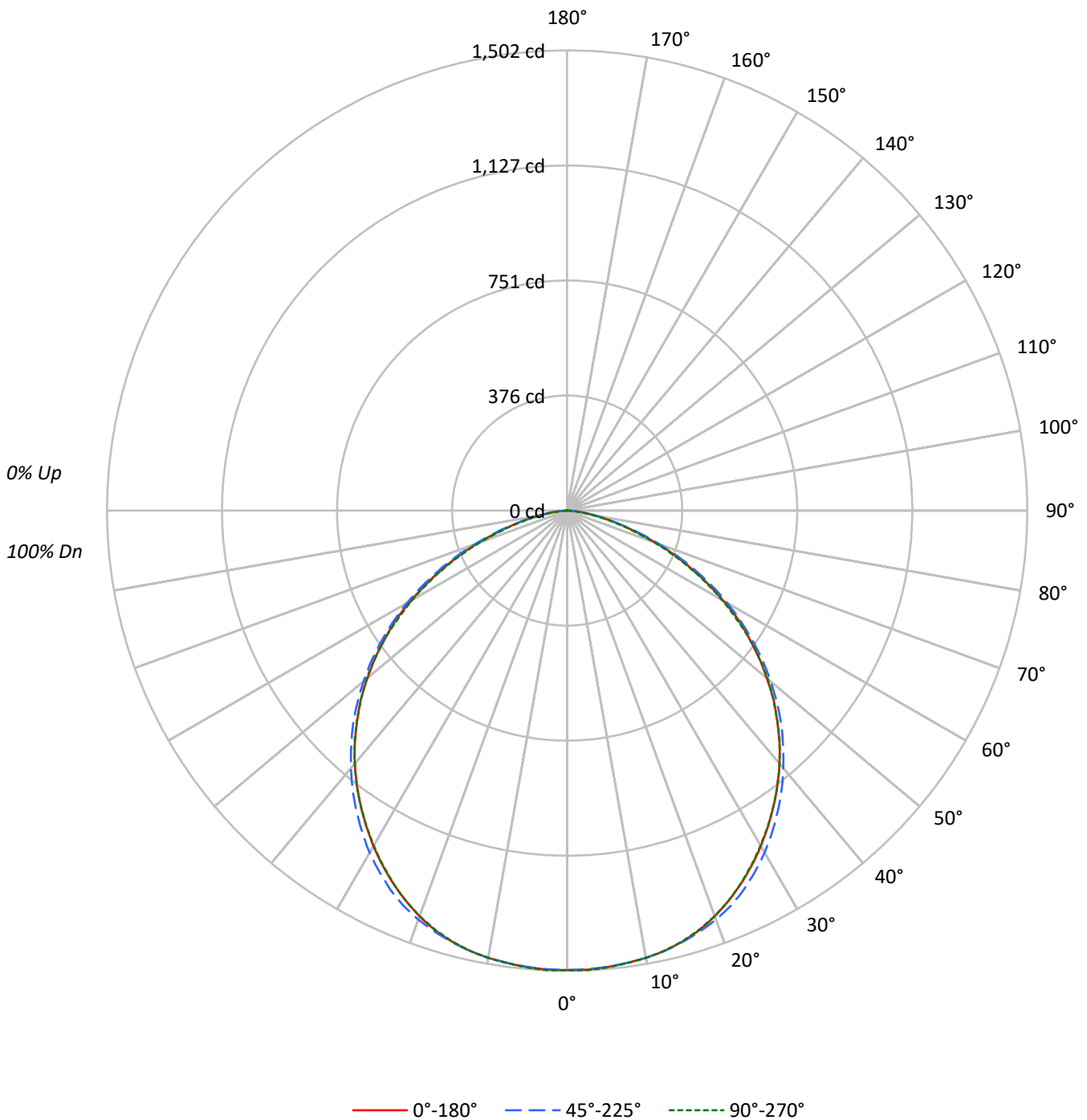
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4029.0 lumens
Efficiency: N/A
Efficacy: 105.5 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): 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

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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°	4036	4036	4036
5°	4041	4038	4044
10°	4051	4050	4051
15°	4056	4061	4055
20°	4035	4068	4033
25°	3988	4054	3986
30°	3929	4007	3924
35°	3861	3938	3861
40°	3789	3856	3789
45°	3689	3761	3694
50°	3563	3633	3576
55°	3397	3464	3397
60°	3168	3247	3147
65°	2843	2943	2807
70°	2432	2519	2360
75°	1930	1984	1830
80°	1382	1433	1316
85°	914	942	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	3.5
10°-20°	411.0	10.2
20°-30°	623.6	15.5
30°-40°	744.7	18.5
40°-50°	757.3	18.8
50°-60°	655.1	16.3
60°-70°	450.8	11.2
70°-80°	204.6	5.1
80°-90°	39.6	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°	1176.9	29.2
0°-40°	1921.6	47.7
0°-60°	3334.0	82.8
0°-90°	4029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1496	1494	1495	1495	1497	142
15°	1456	1457	1458	1455	1455	411
25°	1343	1355	1365	1353	1342	619
35°	1175	1196	1199	1194	1175	735
45°	969	987	988	987	971	747
55°	724	736	738	737	724	647
65°	446	459	462	458	441	443
75°	186	193	191	189	176	200
85°	30	32	30	30	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499.7	1499.7	1499.7	1499.7	1499.7
2.5°	1499.7	1497.8	1498.3	1498.8	1501.7
5°	1495.9	1494.5	1495.0	1495.0	1496.9
7.5°	1489.7	1489.3	1489.3	1488.8	1490.2
10°	1482.6	1481.6	1482.1	1481.6	1482.6
12.5°	1471.6	1471.6	1472.1	1470.7	1471.6
15°	1455.9	1456.8	1457.8	1455.4	1455.4
17.5°	1435.8	1438.2	1440.6	1436.3	1433.9
20°	1409.1	1414.8	1420.6	1413.9	1408.2
22.5°	1378.1	1387.6	1396.2	1385.7	1378.1
25°	1343.3	1355.2	1365.2	1352.8	1342.3
27.5°	1305.6	1319.0	1328.5	1318.0	1303.7
30°	1264.6	1280.8	1289.4	1279.4	1262.7
32.5°	1220.7	1239.8	1245.0	1238.8	1219.7
35°	1175.4	1196.4	1198.7	1194.5	1175.4
37.5°	1128.2	1148.2	1150.1	1147.7	1128.2
40°	1078.5	1097.1	1097.6	1097.6	1078.5
42.5°	1025.6	1043.7	1043.7	1043.2	1027.0
45°	969.3	987.0	988.4	987.4	970.7
47.5°	913.5	926.8	929.2	927.3	912.5
50°	851.0	864.8	867.7	865.8	854.3
52.5°	789.0	801.9	804.7	803.3	790.4
55°	724.1	736.5	738.4	737.0	724.1
57.5°	661.6	669.7	671.6	668.8	652.6
60°	588.6	600.1	603.4	600.1	584.8
62.5°	518.0	530.4	533.3	528.5	512.3
65°	446.5	458.9	462.2	458.4	440.8
67.5°	378.8	387.8	390.7	386.4	370.2
70°	309.1	320.6	320.1	314.4	300.0
72.5°	240.4	256.2	253.3	250.0	234.2
75°	185.6	192.7	190.8	188.9	176.0
77.5°	132.6	141.2	136.4	136.9	125.9
80°	89.2	97.3	92.5	90.6	84.9
82.5°	56.8	60.1	59.2	58.2	52.9
85°	29.6	31.5	30.5	29.6	27.7
87.5°	11.4	12.4	11.4	11.4	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)