

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: P413199

Luminaire Tested: **24PD-45-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413199
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-45-PC3-L830
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

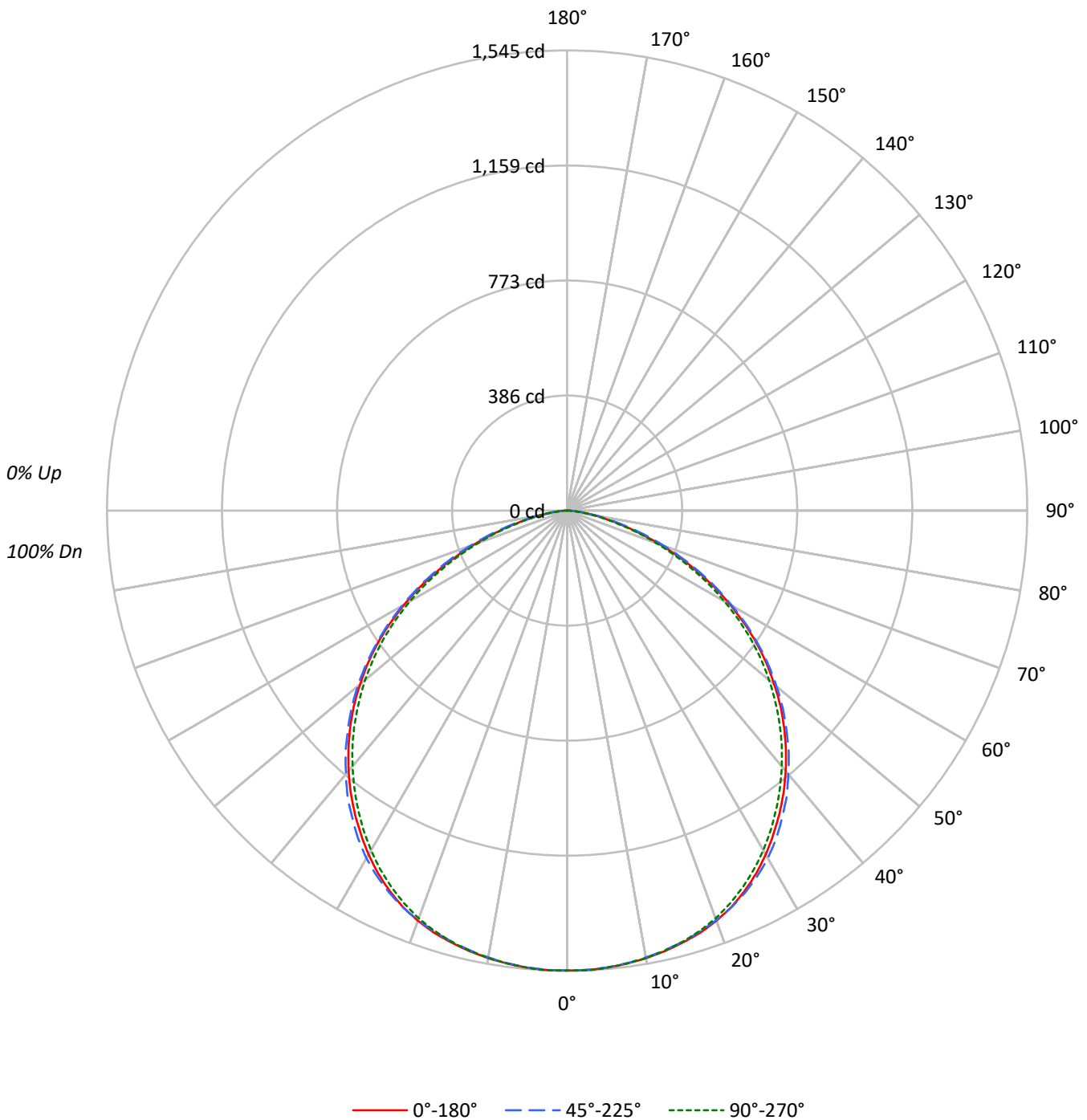
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4221.0 lumens
Efficiency: N/A
Efficacy: 126.4 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): 33.4
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°	2078	2078	2078
5°	2081	2079	2081
10°	2085	2082	2084
15°	2092	2087	2088
20°	2098	2095	2086
25°	2093	2100	2071
30°	2072	2094	2046
35°	2041	2067	2010
40°	2005	2029	1969
45°	1960	1981	1919
50°	1899	1921	1853
55°	1821	1837	1767
60°	1700	1720	1641
65°	1532	1570	1472
70°	1301	1358	1249
75°	1007	1081	961
80°	749	783	680
85°	462	496	429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	3.5
10°-20°	423.5	10.0
20°-30°	648.5	15.4
30°-40°	780.2	18.5
40°-50°	795.6	18.8
50°-60°	689.7	16.3
60°-70°	478.2	11.3
70°-80°	218.4	5.2
80°-90°	40.3	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°	1218.5	28.9
0°-40°	1998.8	47.4
0°-60°	3484.1	82.5
0°-90°	4221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1540	1540	1540	1539	1541	147
15°	1502	1501	1498	1497	1499	424
25°	1410	1413	1415	1402	1395	649
35°	1243	1256	1258	1242	1224	777
45°	1030	1043	1041	1027	1009	794
55°	776	781	783	764	753	692
65°	481	492	493	476	462	476
75°	194	204	208	201	185	212
85°	30	31	32	30	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.3	1544.3	1544.3	1544.3	1544.3
2.5°	1544.3	1544.3	1543.4	1542.5	1545.1
5°	1540.4	1540.4	1539.6	1538.7	1540.8
7.5°	1534.4	1534.0	1533.1	1532.3	1533.6
10°	1525.9	1525.4	1523.7	1523.3	1525.0
12.5°	1515.2	1514.7	1512.2	1512.2	1513.5
15°	1501.5	1501.1	1498.5	1497.2	1498.9
17.5°	1486.1	1485.7	1482.7	1479.2	1480.1
20°	1465.5	1465.5	1463.4	1458.3	1457.0
22.5°	1440.7	1442.0	1442.0	1432.2	1428.3
25°	1409.5	1413.4	1414.6	1402.2	1395.0
27.5°	1374.0	1380.0	1383.4	1367.6	1358.2
30°	1333.4	1343.2	1347.5	1330.4	1316.7
32.5°	1288.9	1301.3	1306.4	1289.7	1272.2
35°	1242.7	1255.9	1258.5	1242.3	1223.9
37.5°	1193.5	1207.2	1210.6	1196.1	1173.4
40°	1141.7	1155.4	1155.4	1143.4	1121.2
42.5°	1087.0	1101.5	1101.1	1086.5	1066.4
45°	1030.1	1042.9	1041.2	1027.1	1008.7
47.5°	971.5	979.6	981.7	965.1	947.5
50°	907.3	915.4	917.6	898.7	885.1
52.5°	844.0	849.1	852.1	830.3	820.5
55°	776.4	781.1	783.3	764.0	753.3
57.5°	705.0	711.0	713.5	694.3	682.3
60°	631.8	638.2	639.1	621.1	610.0
62.5°	557.4	565.9	567.7	549.7	536.4
65°	481.2	491.5	493.2	476.5	462.4
67.5°	405.1	418.8	419.2	405.5	388.8
70°	330.7	345.6	345.2	333.7	317.4
72.5°	259.7	273.3	276.3	265.6	249.8
75°	193.8	204.5	207.9	201.1	184.8
77.5°	137.7	147.6	150.6	144.2	132.2
80°	96.7	97.1	101.0	95.8	87.7
82.5°	59.9	59.0	60.3	58.2	53.5
85°	29.9	30.8	32.1	30.4	27.8
87.5°	10.3	10.7	11.5	11.5	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)