

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: P413221

Luminaire Tested: **24PD-55-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413221
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-55-PC3-L927
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

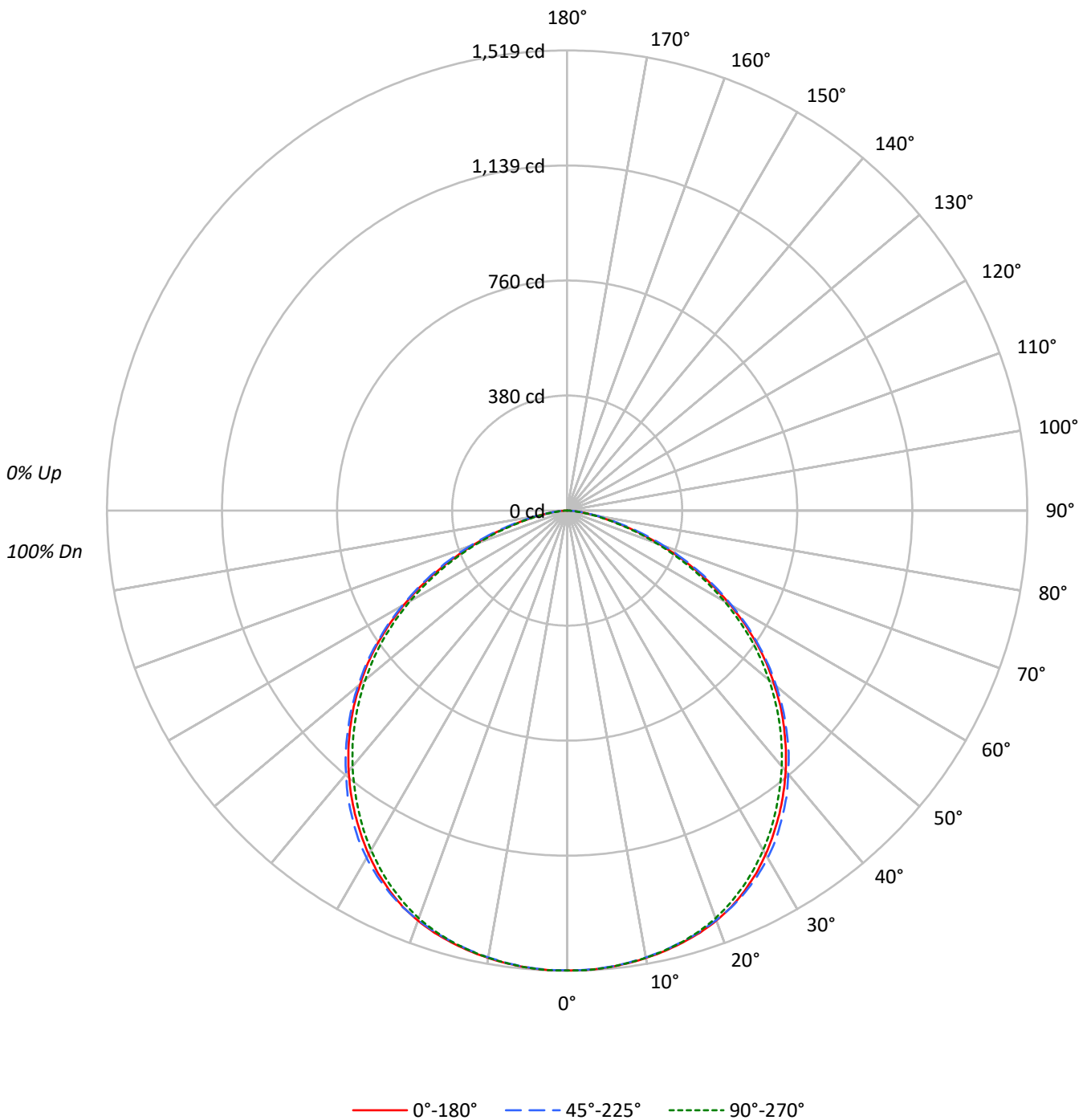
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4149.0 lumens
Efficiency: N/A
Efficacy: 99.5 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): 41.7
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°	2042	2042	2042
5°	2045	2044	2046
10°	2049	2046	2048
15°	2056	2052	2052
20°	2063	2060	2051
25°	2057	2064	2036
30°	2036	2058	2011
35°	2006	2032	1976
40°	1971	1995	1936
45°	1927	1947	1887
50°	1867	1888	1821
55°	1790	1806	1737
60°	1671	1690	1614
65°	1506	1543	1447
70°	1279	1335	1227
75°	990	1063	944
80°	736	769	668
85°	454	486	421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	3.5
10°-20°	416.3	10.0
20°-30°	637.5	15.4
30°-40°	766.9	18.5
40°-50°	782.0	18.8
50°-60°	678.0	16.3
60°-70°	470.0	11.3
70°-80°	214.7	5.2
80°-90°	39.7	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°	1197.7	28.9
0°-40°	1964.7	47.4
0°-60°	3424.6	82.5
0°-90°	4149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1514	1514	1513	1512	1515	144
15°	1476	1475	1473	1472	1473	417
25°	1386	1389	1390	1378	1371	638
35°	1222	1234	1237	1221	1203	764
45°	1012	1025	1023	1010	992	780
55°	763	768	770	751	740	680
65°	473	483	485	468	454	468
75°	190	201	204	198	182	208
85°	29	30	32	30	27	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1517.9	1517.9	1517.9	1517.9	1517.9
2.5°	1517.9	1517.9	1517.1	1516.2	1518.8
5°	1514.1	1514.1	1513.3	1512.4	1514.6
7.5°	1508.2	1507.8	1507.0	1506.1	1507.4
10°	1499.8	1499.4	1497.7	1497.3	1499.0
12.5°	1489.3	1488.9	1486.4	1486.4	1487.6
15°	1475.9	1475.4	1472.9	1471.7	1473.3
17.5°	1460.7	1460.3	1457.4	1454.0	1454.8
20°	1440.5	1440.5	1438.4	1433.4	1432.1
22.5°	1416.2	1417.4	1417.4	1407.8	1404.0
25°	1385.5	1389.3	1390.5	1378.3	1371.2
27.5°	1350.6	1356.5	1359.8	1344.3	1335.0
30°	1310.6	1320.3	1324.5	1307.7	1294.2
32.5°	1266.9	1279.1	1284.1	1267.7	1250.5
35°	1221.5	1234.5	1237.0	1221.1	1203.0
37.5°	1173.1	1186.6	1189.9	1175.6	1153.4
40°	1122.2	1135.7	1135.7	1123.9	1102.1
42.5°	1068.4	1082.7	1082.3	1068.0	1048.2
45°	1012.5	1025.1	1023.4	1009.6	991.5
47.5°	954.9	962.9	965.0	948.6	931.4
50°	891.8	899.8	901.9	883.4	870.0
52.5°	829.6	834.6	837.6	816.1	806.5
55°	763.2	767.8	769.9	751.0	740.5
57.5°	692.9	698.8	701.4	682.4	670.7
60°	621.0	627.3	628.2	610.5	599.6
62.5°	547.9	556.3	558.0	540.3	527.3
65°	473.0	483.1	484.8	468.4	454.5
67.5°	398.2	411.6	412.1	398.6	382.2
70°	325.0	339.7	339.3	328.0	312.0
72.5°	255.2	268.7	271.6	261.1	245.6
75°	190.5	201.0	204.4	197.6	181.6
77.5°	135.4	145.1	148.0	141.7	129.9
80°	95.0	95.4	99.2	94.2	86.2
82.5°	58.9	58.0	59.3	57.2	52.6
85°	29.4	30.3	31.5	29.9	27.3
87.5°	10.1	10.5	11.4	11.4	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)