

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: P413224

Luminaire Tested: **24PD-55-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413224
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-L940
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

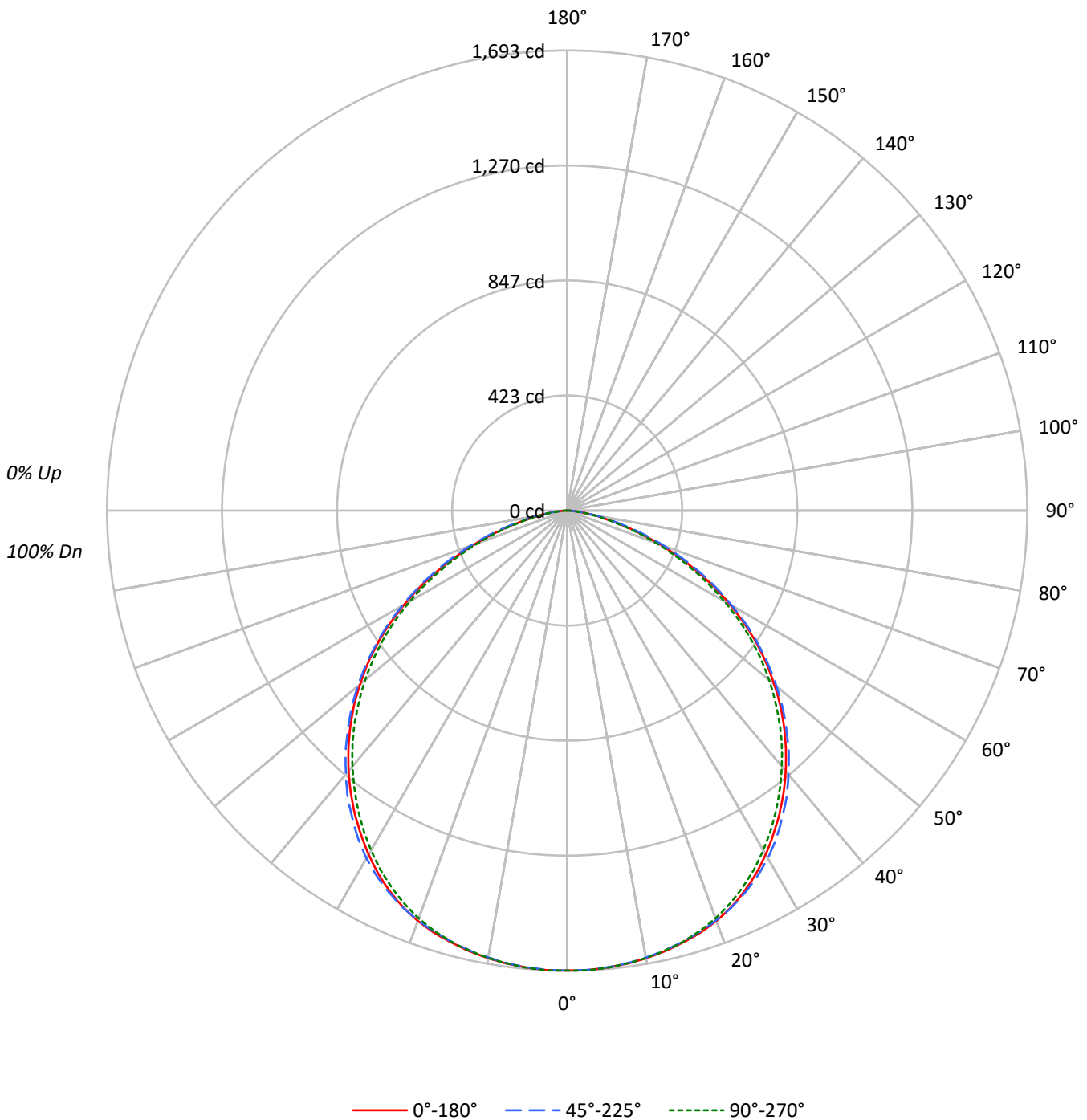
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4626.0 lumens
Efficiency: N/A
Efficacy: 110.9 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°	2277	2277	2277
5°	2280	2279	2281
10°	2285	2281	2283
15°	2292	2288	2288
20°	2300	2296	2286
25°	2293	2302	2270
30°	2270	2294	2242
35°	2237	2266	2203
40°	2198	2224	2158
45°	2148	2171	2104
50°	2081	2105	2030
55°	1996	2014	1937
60°	1863	1885	1799
65°	1679	1721	1613
70°	1426	1488	1369
75°	1104	1184	1053
80°	821	857	745
85°	506	543	471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	3.5
10°-20°	464.1	10.0
20°-30°	710.8	15.4
30°-40°	855.1	18.5
40°-50°	871.9	18.8
50°-60°	755.9	16.3
60°-70°	524.1	11.3
70°-80°	239.3	5.2
80°-90°	44.2	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°	1335.5	28.9
0°-40°	2190.5	47.4
0°-60°	3818.4	82.5
0°-90°	4626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4626.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1688	1688	1687	1686	1689	161
15°	1646	1645	1642	1641	1643	465
25°	1545	1549	1550	1537	1529	711
35°	1362	1376	1379	1361	1341	852
45°	1129	1143	1141	1126	1106	870
55°	851	856	858	837	826	758
65°	527	539	540	522	507	521
75°	212	224	228	220	202	232
85°	33	34	35	33	30	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1692.4	1692.4	1692.4	1692.4	1692.4
2.5°	1692.4	1692.4	1691.5	1690.6	1693.4
5°	1688.2	1688.2	1687.3	1686.3	1688.7
7.5°	1681.6	1681.2	1680.2	1679.3	1680.7
10°	1672.3	1671.8	1669.9	1669.5	1671.3
12.5°	1660.5	1660.1	1657.3	1657.3	1658.7
15°	1645.5	1645.1	1642.3	1640.9	1642.7
17.5°	1628.7	1628.2	1624.9	1621.2	1622.1
20°	1606.2	1606.2	1603.8	1598.2	1596.8
22.5°	1579.0	1580.4	1580.4	1569.6	1565.4
25°	1544.7	1549.0	1550.4	1536.8	1528.8
27.5°	1505.8	1512.4	1516.2	1498.8	1488.5
30°	1461.3	1472.1	1476.8	1458.0	1443.0
32.5°	1412.5	1426.1	1431.8	1413.5	1394.3
35°	1361.9	1376.4	1379.3	1361.4	1341.3
37.5°	1308.0	1323.0	1326.8	1310.8	1286.0
40°	1251.3	1266.3	1266.3	1253.1	1228.8
42.5°	1191.3	1207.2	1206.7	1190.8	1168.8
45°	1128.9	1143.0	1141.1	1125.6	1105.5
47.5°	1064.7	1073.6	1075.9	1057.6	1038.4
50°	994.4	1003.3	1005.6	985.0	970.0
52.5°	925.0	930.6	933.9	910.0	899.2
55°	850.9	856.1	858.4	837.3	825.6
57.5°	772.6	779.2	782.0	760.9	747.8
60°	692.4	699.5	700.4	680.7	668.5
62.5°	610.9	620.2	622.1	602.4	587.9
65°	527.4	538.7	540.5	522.3	506.8
67.5°	444.0	459.0	459.4	444.4	426.2
70°	362.4	378.8	378.3	365.7	347.9
72.5°	284.6	299.6	302.9	291.1	273.8
75°	212.4	224.1	227.8	220.3	202.5
77.5°	151.0	161.7	165.0	158.0	144.9
80°	106.0	106.4	110.6	105.0	96.1
82.5°	65.6	64.7	66.1	63.8	58.6
85°	32.8	33.8	35.2	33.3	30.5
87.5°	11.3	11.7	12.7	12.7	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)