

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: P284428

Luminaire Tested: **24FP4730C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-913-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24FP4730C
Description: 2x4 40W 3000K SE 80CRI

Light Source: -
Ballast/Driver: -

Summary

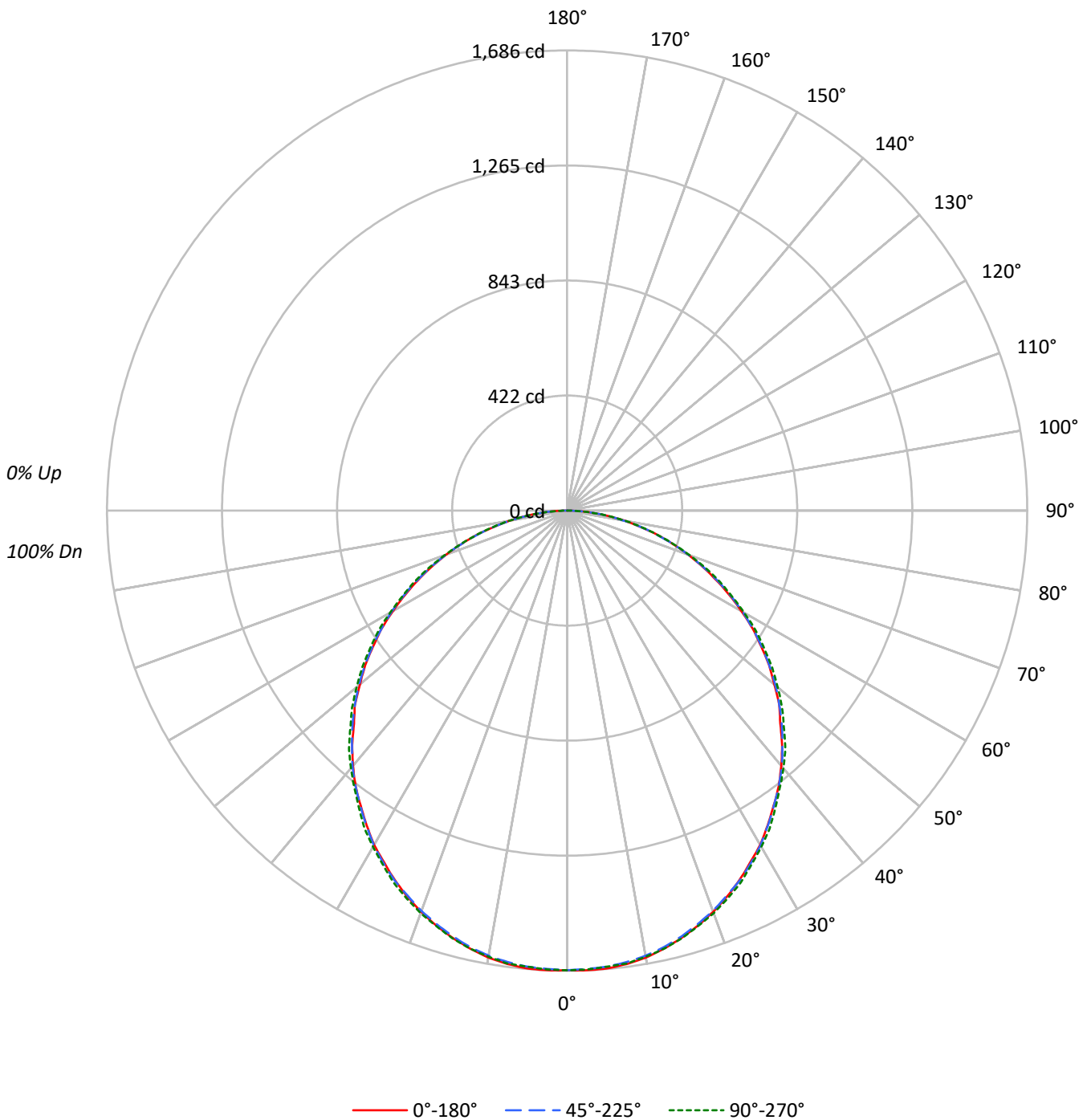
Lumens per Lamp: N/A
Luminaire Lumens: 4844.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.7
Input Voltage (V): NR
Input Current (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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2266	2266	2266
5°	2275	2265	2265
10°	2272	2263	2267
15°	2258	2250	2260
20°	2240	2235	2247
25°	2218	2220	2233
30°	2197	2200	2211
35°	2167	2170	2184
40°	2144	2150	2165
45°	2101	2117	2138
50°	2075	2086	2108
55°	2035	2044	2069
60°	1984	1998	2017
65°	1920	1937	1965
70°	1852	1859	1880
75°	1778	1760	1778
80°	1654	1626	1681
85°	1443	1470	1443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	3.3
10°-20°	456.5	9.4
20°-30°	689.4	14.2
30°-40°	829.0	17.1
40°-50°	859.9	17.8
50°-60°	780.7	16.1
60°-70°	602.3	12.4
70°-80°	359.7	7.4
80°-90°	107.0	2.2
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°	1305.5	27.0
0°-40°	2134.5	44.1
0°-60°	3775.0	77.9
0°-90°	4844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1684	1679	1677	1677	1677	160
15°	1621	1619	1615	1617	1622	457
25°	1494	1494	1496	1497	1504	688
35°	1319	1324	1321	1324	1330	826
45°	1104	1111	1113	1118	1123	855
55°	868	871	871	876	882	776
65°	603	607	608	612	617	597
75°	342	339	339	340	342	360
85°	94	95	95	94	94	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1684.2	1684.2	1684.2	1684.2	1684.2
2.5°	1686.0	1686.0	1680.7	1682.5	1682.5
5°	1684.2	1678.9	1677.2	1677.2	1677.2
7.5°	1675.4	1670.1	1668.3	1670.1	1673.6
10°	1663.1	1656.0	1656.0	1656.0	1659.5
12.5°	1643.7	1640.1	1638.4	1636.6	1643.7
15°	1620.7	1619.0	1615.4	1617.2	1622.5
17.5°	1594.3	1590.7	1589.0	1594.3	1596.0
20°	1564.3	1560.8	1560.8	1566.1	1569.6
22.5°	1530.8	1530.8	1527.3	1532.6	1537.8
25°	1493.8	1493.8	1495.5	1497.3	1504.3
27.5°	1453.2	1455.0	1456.7	1460.2	1462.0
30°	1414.4	1412.6	1416.2	1419.7	1423.2
32.5°	1366.8	1370.3	1368.5	1377.4	1380.9
35°	1319.2	1324.4	1320.9	1324.4	1329.7
37.5°	1273.3	1275.1	1273.3	1280.4	1280.4
40°	1220.4	1220.4	1223.9	1229.2	1232.7
42.5°	1165.7	1167.5	1167.5	1174.5	1183.4
45°	1104.0	1111.1	1112.8	1118.1	1123.4
47.5°	1054.6	1052.9	1054.6	1059.9	1068.7
50°	991.1	994.7	996.4	1001.7	1007.0
52.5°	932.9	934.7	934.7	940.0	947.0
55°	867.7	871.2	871.2	876.5	881.8
57.5°	806.0	804.2	807.7	813.0	820.1
60°	737.2	737.2	742.5	746.0	749.5
62.5°	670.2	671.9	675.5	680.7	680.7
65°	603.1	606.7	608.4	612.0	617.3
67.5°	536.1	537.9	539.7	543.2	548.5
70°	470.9	470.9	472.6	476.2	477.9
72.5°	405.6	403.9	403.9	410.9	409.2
75°	342.1	338.6	338.6	340.4	342.1
77.5°	273.4	271.6	275.1	276.9	276.9
80°	213.4	211.6	209.9	211.6	216.9
82.5°	151.7	151.7	149.9	151.7	151.7
85°	93.5	95.2	95.2	93.5	93.5
87.5°	44.1	42.3	42.3	40.6	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)