

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: P284419

Luminaire Tested: **24FP3140C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P284419  
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: 24FP3140C  
Description: 2x4 30W 4000K SE 80CRI

Light Source: -  
Ballast/Driver: -

**Summary**

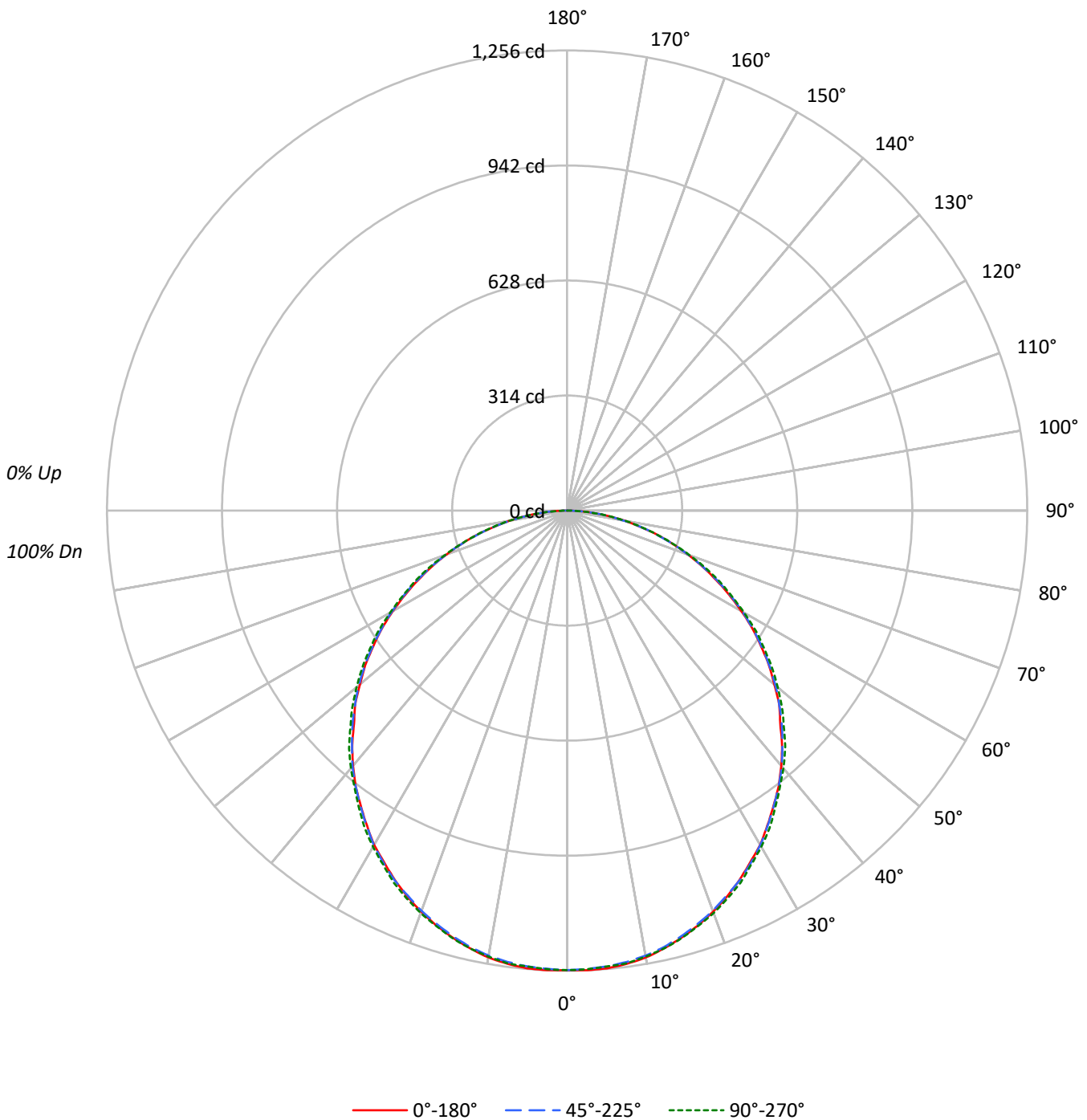
Lumens per Lamp: N/A  
Luminaire Lumens: 3607.6 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 29.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1688	1688	1688
5°	1694	1687	1687
10°	1692	1685	1689
15°	1681	1676	1683
20°	1668	1664	1674
25°	1652	1654	1663
30°	1637	1639	1647
35°	1614	1616	1627
40°	1596	1601	1613
45°	1564	1577	1592
50°	1545	1553	1570
55°	1516	1522	1540
60°	1477	1488	1502
65°	1430	1443	1464
70°	1380	1385	1400
75°	1325	1311	1325
80°	1231	1211	1252
85°	1074	1095	1074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.8	3.3
10°-20°	340.0	9.4
20°-30°	513.5	14.2
30°-40°	617.4	17.1
40°-50°	640.4	17.8
50°-60°	581.4	16.1
60°-70°	448.5	12.4
70°-80°	267.9	7.4
80°-90°	79.7	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°	972.3	27.0
0°-40°	1589.7	44.1
0°-60°	2811.5	77.9
0°-90°	3607.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3607.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1254	1250	1249	1249	1249	119
15°	1207	1206	1203	1204	1208	341
25°	1112	1112	1114	1115	1120	513
35°	982	986	984	986	990	615
45°	822	828	829	833	837	637
55°	646	649	649	653	657	578
65°	449	452	453	456	460	445
75°	255	252	252	254	255	268
85°	70	71	71	70	70	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1254.3	1254.3	1254.3	1254.3	1254.3
2.5°	1255.6	1255.6	1251.7	1253.0	1253.0
5°	1254.3	1250.4	1249.1	1249.1	1249.1
7.5°	1247.8	1243.8	1242.5	1243.8	1246.5
10°	1238.6	1233.3	1233.3	1233.3	1235.9
12.5°	1224.1	1221.5	1220.2	1218.9	1224.1
15°	1207.0	1205.7	1203.1	1204.4	1208.4
17.5°	1187.3	1184.7	1183.4	1187.3	1188.7
20°	1165.0	1162.4	1162.4	1166.3	1169.0
22.5°	1140.1	1140.1	1137.4	1141.4	1145.3
25°	1112.5	1112.5	1113.8	1115.1	1120.4
27.5°	1082.3	1083.6	1084.9	1087.5	1088.8
30°	1053.4	1052.1	1054.7	1057.3	1059.9
32.5°	1017.9	1020.5	1019.2	1025.8	1028.4
35°	982.5	986.4	983.8	986.4	990.3
37.5°	948.3	949.6	948.3	953.6	953.6
40°	908.9	908.9	911.5	915.5	918.1
42.5°	868.2	869.5	869.5	874.7	881.3
45°	822.2	827.5	828.8	832.7	836.7
47.5°	785.4	784.1	785.4	789.4	795.9
50°	738.2	740.8	742.1	746.0	750.0
52.5°	694.8	696.1	696.1	700.1	705.3
55°	646.2	648.8	648.8	652.8	656.7
57.5°	600.2	598.9	601.6	605.5	610.7
60°	549.0	549.0	553.0	555.6	558.2
62.5°	499.1	500.4	503.0	507.0	507.0
65°	449.2	451.8	453.1	455.8	459.7
67.5°	399.3	400.6	401.9	404.5	408.5
70°	350.7	350.7	352.0	354.6	355.9
72.5°	302.1	300.8	300.8	306.0	304.7
75°	254.8	252.2	252.2	253.5	254.8
77.5°	203.6	202.3	204.9	206.2	206.2
80°	158.9	157.6	156.3	157.6	161.6
82.5°	113.0	113.0	111.6	113.0	113.0
85°	69.6	70.9	70.9	69.6	69.6
87.5°	32.8	31.5	31.5	30.2	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)