

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: P284418

Luminaire Tested: **24FP3135C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284418
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: 24FP3135C
Description: 2x4 30W 3500K SE 80CRI

Light Source: -
Ballast/Driver: -

Summary

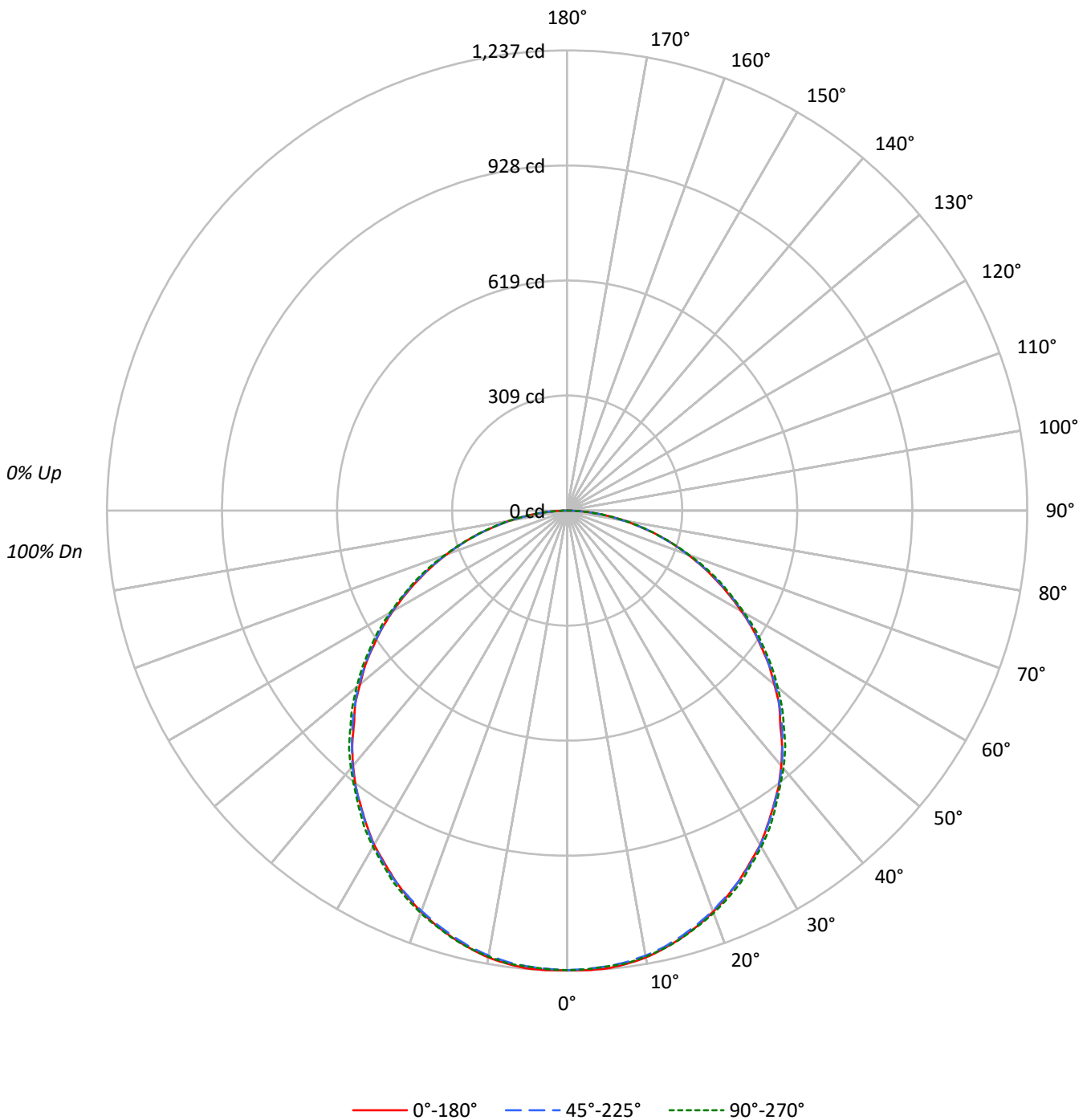
Lumens per Lamp: N/A
Luminaire Lumens: 3553.2 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.3
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	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°	1662	1662	1662
5°	1669	1662	1662
10°	1667	1660	1663
15°	1656	1651	1658
20°	1643	1639	1648
25°	1627	1629	1638
30°	1612	1614	1622
35°	1589	1591	1602
40°	1572	1577	1588
45°	1541	1553	1568
50°	1522	1530	1546
55°	1493	1499	1517
60°	1455	1466	1480
65°	1408	1421	1442
70°	1359	1364	1379
75°	1305	1291	1305
80°	1213	1192	1233
85°	1059	1079	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.3
10°-20°	334.9	9.4
20°-30°	505.7	14.2
30°-40°	608.1	17.1
40°-50°	630.8	17.8
50°-60°	572.6	16.1
60°-70°	441.8	12.4
70°-80°	263.8	7.4
80°-90°	78.5	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°	957.6	27.0
0°-40°	1565.7	44.1
0°-60°	2769.1	77.9
0°-90°	3553.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3553.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1235	1232	1230	1230	1230	117
15°	1189	1188	1185	1186	1190	335
25°	1096	1096	1097	1098	1104	505
35°	968	972	969	972	975	606
45°	810	815	816	820	824	627
55°	636	639	639	643	647	569
65°	442	445	446	449	453	438
75°	251	248	248	250	251	264
85°	69	70	70	69	69	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.4	1235.4	1235.4	1235.4	1235.4
2.5°	1236.7	1236.7	1232.8	1234.1	1234.1
5°	1235.4	1231.5	1230.2	1230.2	1230.2
7.5°	1228.9	1225.1	1223.8	1225.1	1227.7
10°	1219.9	1214.7	1214.7	1214.7	1217.3
12.5°	1205.7	1203.1	1201.8	1200.5	1205.7
15°	1188.8	1187.6	1185.0	1186.3	1190.1
17.5°	1169.4	1166.9	1165.6	1169.4	1170.7
20°	1147.5	1144.9	1144.9	1148.7	1151.3
22.5°	1122.9	1122.9	1120.3	1124.2	1128.0
25°	1095.7	1095.7	1097.0	1098.3	1103.5
27.5°	1066.0	1067.2	1068.5	1071.1	1072.4
30°	1037.5	1036.2	1038.8	1041.4	1044.0
32.5°	1002.6	1005.2	1003.9	1010.3	1012.9
35°	967.6	971.5	968.9	971.5	975.4
37.5°	934.0	935.3	934.0	939.2	939.2
40°	895.2	895.2	897.8	901.7	904.2
42.5°	855.1	856.4	856.4	861.6	868.0
45°	809.8	815.0	816.3	820.2	824.0
47.5°	773.6	772.3	773.6	777.5	783.9
50°	727.0	729.6	730.9	734.8	738.7
52.5°	684.3	685.6	685.6	689.5	694.7
55°	636.5	639.1	639.1	642.9	646.8
57.5°	591.2	589.9	592.5	596.4	601.5
60°	540.7	540.7	544.6	547.2	549.8
62.5°	491.6	492.9	495.5	499.3	499.3
65°	442.4	445.0	446.3	448.9	452.8
67.5°	393.3	394.6	395.9	398.4	402.3
70°	345.4	345.4	346.7	349.3	350.6
72.5°	297.5	296.2	296.2	301.4	300.1
75°	251.0	248.4	248.4	249.7	251.0
77.5°	200.5	199.2	201.8	203.1	203.1
80°	156.5	155.2	153.9	155.2	159.1
82.5°	111.3	111.3	110.0	111.3	111.3
85°	68.6	69.9	69.9	68.6	68.6
87.5°	32.3	31.0	31.0	29.8	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)