

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: P284426

Luminaire Tested: **14FP4230C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284426
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: 14FP4230C
Description: 1x4 40W 3000K SE 80CRI

Light Source: -
Ballast/Driver: -

Summary

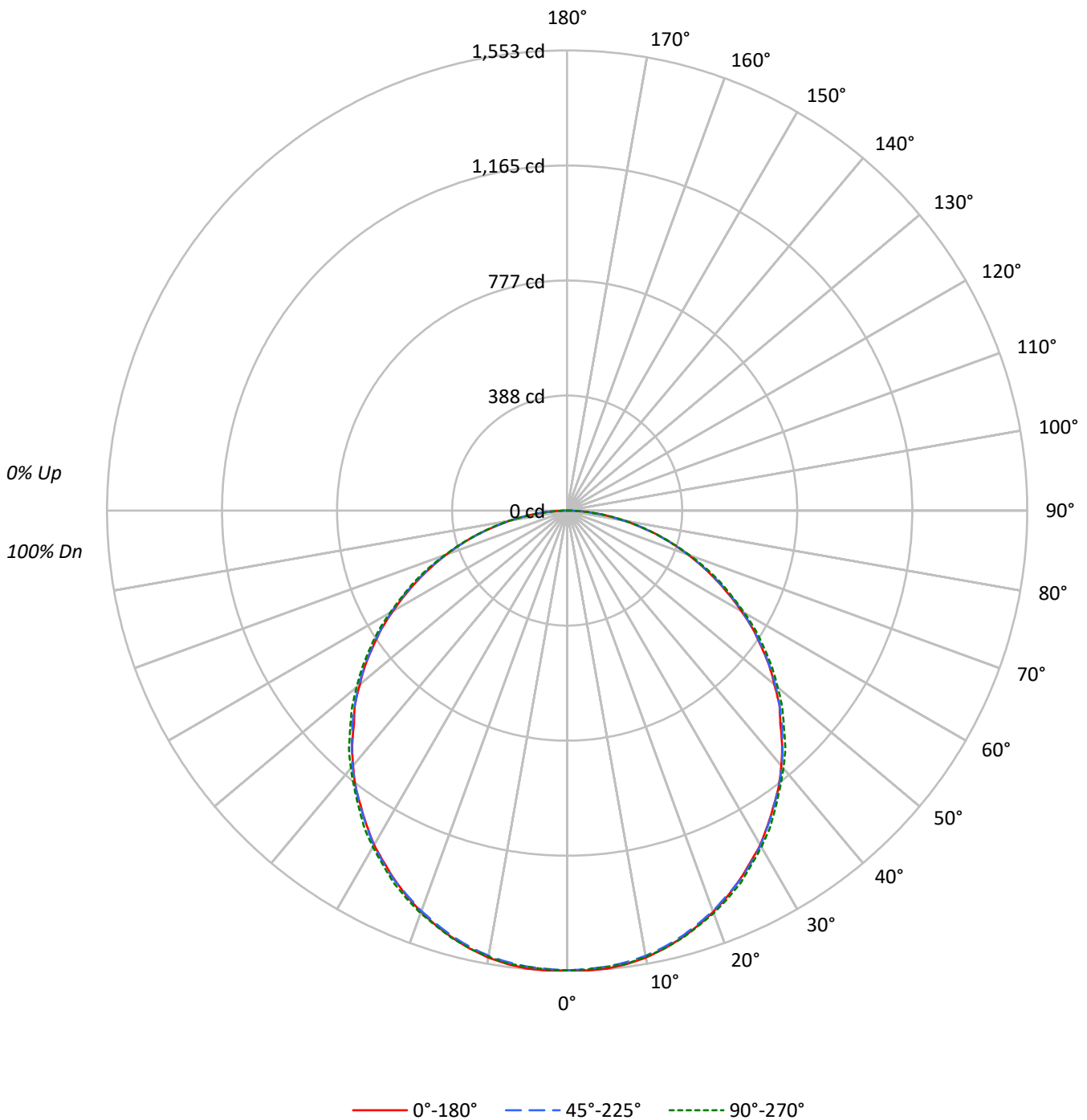
Lumens per Lamp: N/A
Luminaire Lumens: 4462.7 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.1
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°	4175	4175	4175
5°	4191	4174	4174
10°	4186	4169	4178
15°	4160	4146	4164
20°	4127	4118	4141
25°	4086	4091	4115
30°	4049	4054	4074
35°	3992	3998	4025
40°	3949	3961	3990
45°	3871	3902	3939
50°	3823	3843	3884
55°	3750	3765	3811
60°	3655	3681	3716
65°	3538	3569	3621
70°	3413	3426	3464
75°	3277	3244	3277
80°	3047	2996	3096
85°	2658	2708	2658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	3.3
10°-20°	420.6	9.4
20°-30°	635.2	14.2
30°-40°	763.7	17.1
40°-50°	792.2	17.8
50°-60°	719.2	16.1
60°-70°	554.9	12.4
70°-80°	331.4	7.4
80°-90°	98.6	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°	1202.7	27.0
0°-40°	1966.5	44.1
0°-60°	3477.9	77.9
0°-90°	4462.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4462.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1552	1547	1545	1545	1545	147
15°	1493	1492	1488	1490	1495	421
25°	1376	1376	1378	1379	1386	634
35°	1215	1220	1217	1220	1225	761
45°	1017	1024	1025	1030	1035	788
55°	799	803	803	808	812	715
65°	556	559	560	564	569	550
75°	315	312	312	314	315	331
85°	86	88	88	86	86	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1551.6	1551.6	1551.6	1551.6	1551.6
2.5°	1553.3	1553.3	1548.4	1550.0	1550.0
5°	1551.6	1546.8	1545.1	1545.1	1545.1
7.5°	1543.5	1538.6	1537.0	1538.6	1541.9
10°	1532.1	1525.6	1525.6	1525.6	1528.9
12.5°	1514.3	1511.0	1509.4	1507.8	1514.3
15°	1493.2	1491.5	1488.3	1489.9	1494.8
17.5°	1468.8	1465.5	1463.9	1468.8	1470.4
20°	1441.2	1437.9	1437.9	1442.8	1446.0
22.5°	1410.3	1410.3	1407.0	1411.9	1416.8
25°	1376.2	1376.2	1377.8	1379.4	1385.9
27.5°	1338.8	1340.4	1342.0	1345.3	1346.9
30°	1303.1	1301.4	1304.7	1307.9	1311.2
32.5°	1259.2	1262.4	1260.8	1268.9	1272.2
35°	1215.3	1220.2	1216.9	1220.2	1225.1
37.5°	1173.1	1174.7	1173.1	1179.6	1179.6
40°	1124.3	1124.3	1127.6	1132.5	1135.7
42.5°	1074.0	1075.6	1075.6	1082.1	1090.2
45°	1017.1	1023.6	1025.2	1030.1	1035.0
47.5°	971.6	970.0	971.6	976.5	984.6
50°	913.1	916.4	918.0	922.9	927.7
52.5°	859.5	861.1	861.1	866.0	872.5
55°	799.4	802.6	802.6	807.5	812.4
57.5°	742.5	740.9	744.1	749.0	755.5
60°	679.1	679.1	684.0	687.3	690.5
62.5°	617.4	619.0	622.3	627.2	627.2
65°	555.7	558.9	560.5	563.8	568.7
67.5°	493.9	495.6	497.2	500.4	505.3
70°	433.8	433.8	435.4	438.7	440.3
72.5°	373.7	372.1	372.1	378.6	376.9
75°	315.2	312.0	312.0	313.6	315.2
77.5°	251.8	250.2	253.5	255.1	255.1
80°	196.6	195.0	193.3	195.0	199.8
82.5°	139.7	139.7	138.1	139.7	139.7
85°	86.1	87.7	87.7	86.1	86.1
87.5°	40.6	39.0	39.0	37.4	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)