

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 14326

Luminaire Tested: **2GC-2U1-5/8**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 14326
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-2U1-5/8
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE WITH WHITE INTERIOR AND .095
PATTERN 12 PRISMATIC ACRYLIC LENS
Light Source: TWO SYLVANIA 31 WATT 1-5/8 U-LAMPS

FB031/835. LUMEN RATING = 2725 LMS.

Ballast/Driver: -

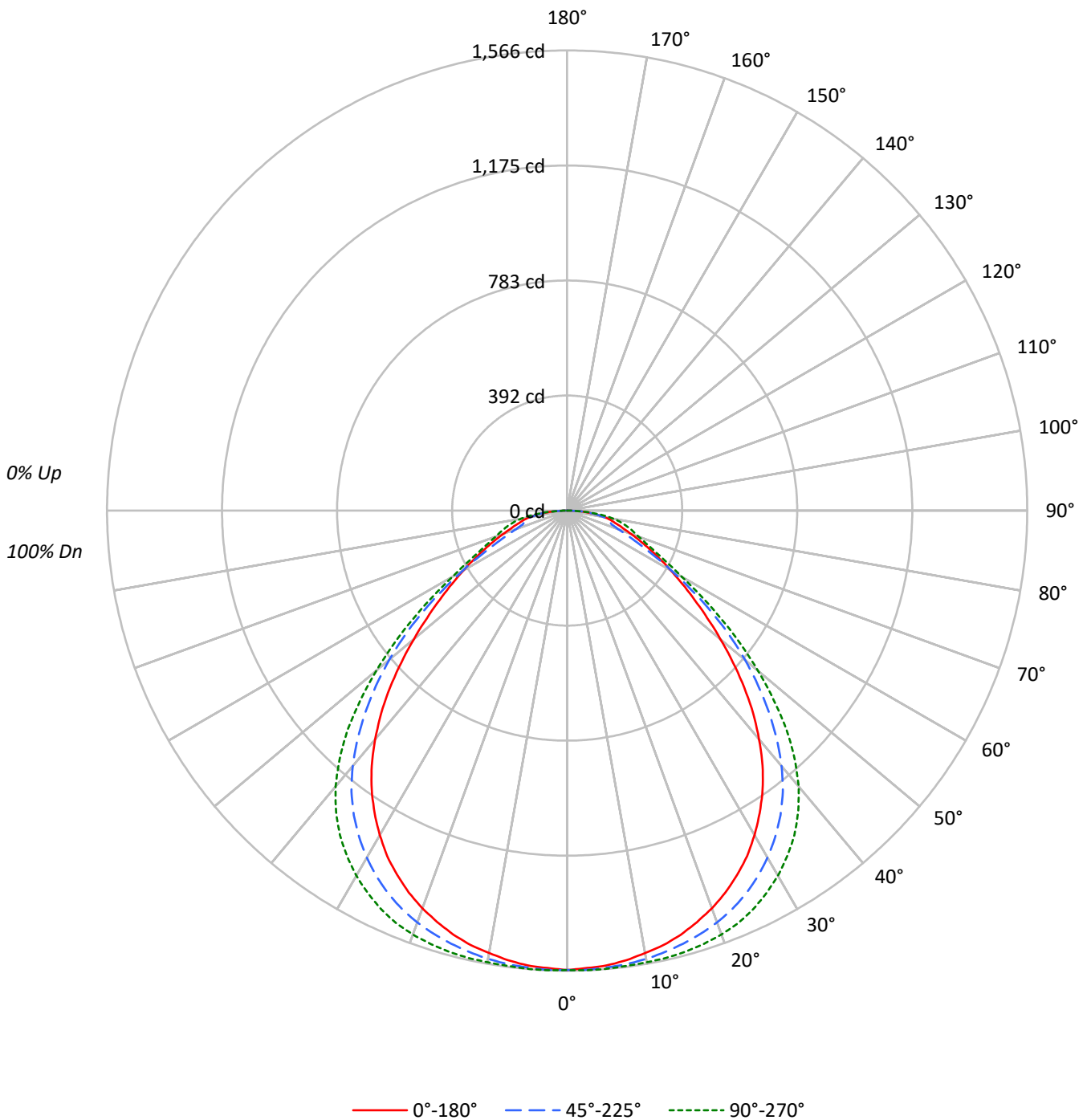
Summary

Lumens per Lamp: 2725 (2 lamps)
Luminaire Lumens: 3851.4 lumens
Efficiency: 70.7%
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.34 / 1.34
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 52
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	50	30	10	0	
RCR																						
0	84	84	84	84	82	82	82	82	79	79	79	75	75	75	72	72	72	71				71
1	77	74	72	69	76	73	70	68	70	68	66	67	65	64	64	63	62	60				60
2	71	66	61	57	69	64	60	57	62	58	55	60	57	54	58	55	53	52				52
3	65	58	53	49	64	57	52	48	55	51	47	53	50	47	52	48	46	44				44
4	60	52	46	42	59	51	46	42	50	45	41	48	44	41	46	43	40	39				39
5	56	47	41	37	54	46	41	36	45	40	36	43	39	36	42	38	35	34				34
6	52	43	37	32	50	42	36	32	41	36	32	40	35	32	38	34	31	30				30
7	48	39	33	29	47	38	33	29	37	32	28	36	32	28	35	31	28	27				27
8	45	35	30	26	44	35	30	26	34	29	26	33	29	25	32	28	25	24				24
9	42	33	27	23	41	32	27	23	31	27	23	31	26	23	30	26	23	22				22
10	39	30	25	21	38	30	25	21	29	24	21	28	24	21	28	24	21	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5195	5195	5195
5°	5182	5205	5220
10°	5157	5227	5265
15°	5139	5248	5346
20°	5092	5273	5428
25°	5015	5274	5489
30°	4892	5232	5505
35°	4705	5133	5468
40°	4407	4924	5316
45°	4005	4562	4967
50°	3521	4085	4380
55°	3064	3459	3689
60°	2708	2741	2990
65°	2421	2136	2586
70°	2238	1803	2508
75°	2230	1902	2728
80°	2476	2420	3067
85°	2584	2642	3053



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	148.5	3.9	2.7	0°	1564	1564	1564	1564	1564	
10°-20°	430.7	11.2	7.9	5°	1554	1555	1561	1566	1565	148
20°-30°	660.6	17.2	12.1	15°	1494	1502	1526	1547	1554	421
30°-40°	784.1	20.4	14.4	25°	1368	1389	1439	1481	1498	630
40°-50°	736.2	19.1	13.5	35°	1160	1191	1266	1322	1348	722
50°-60°	523.4	13.6	9.6	45°	852	894	971	1020	1057	656
60°-70°	303.3	7.9	5.6	55°	529	541	597	612	637	478
70°-80°	187.4	4.9	3.4	65°	308	281	272	324	329	309
80°-90°	77.1	2.0	1.4	75°	174	167	148	198	212	187
90°-100°	0.0	0.0	0.0	85°	68	69	69	84	80	73
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1239.9	32.2	22.8							
0°-40°	2023.9	52.6	37.1							
0°-60°	3283.5	85.3	60.2							
0°-90°	3851.4	100.0	70.7							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	3851.4	100.0	70.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.6	1563.6	1563.6	1563.6	1563.6
2.5°	1558.1	1559.2	1564.1	1567.6	1565.6
5°	1553.8	1554.7	1560.7	1566.3	1565.2
7.5°	1543.3	1546.7	1556.8	1563.7	1562.7
10°	1528.8	1534.7	1549.3	1560.1	1560.7
12.5°	1514.9	1521.4	1538.8	1554.3	1559.2
15°	1494.1	1502.5	1525.9	1546.7	1554.2
17.5°	1468.6	1479.6	1510.4	1537.3	1546.2
20°	1440.2	1454.7	1491.5	1523.3	1535.3
22.5°	1407.4	1423.9	1468.2	1505.0	1519.9
25°	1368.2	1389.0	1438.8	1481.1	1497.5
27.5°	1326.3	1348.2	1404.4	1449.8	1468.2
30°	1275.1	1301.9	1363.7	1413.4	1434.9
32.5°	1219.8	1250.1	1317.9	1372.5	1394.4
35°	1160.0	1190.9	1265.6	1322.4	1348.2
37.5°	1092.9	1125.8	1205.9	1264.5	1291.9
40°	1016.1	1057.0	1135.3	1197.4	1225.8
42.5°	937.6	978.9	1056.6	1113.8	1146.6
45°	852.4	894.3	970.9	1019.8	1057.2
47.5°	766.0	804.3	882.3	915.3	953.5
50°	681.3	715.0	790.3	809.2	847.5
52.5°	601.7	629.0	695.2	709.2	741.9
55°	528.9	541.0	597.1	612.0	636.9
57.5°	464.8	456.3	500.6	520.5	538.4
60°	407.6	385.1	412.5	439.9	450.0
62.5°	355.8	329.0	333.9	374.8	381.6
65°	308.0	281.2	271.7	324.0	329.0
67.5°	267.2	243.3	221.4	284.6	289.6
70°	230.4	211.4	185.6	251.7	258.2
72.5°	199.4	188.0	160.1	224.4	235.4
75°	173.7	166.7	148.2	197.5	212.5
77.5°	153.8	145.3	139.8	172.1	188.5
80°	129.4	122.4	126.5	144.8	160.3
82.5°	100.9	97.0	100.0	117.5	124.8
85°	67.8	68.7	69.3	84.1	80.1
87.5°	32.8	34.3	33.4	38.8	34.2
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)