

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: CORELITE

Report Number: 89168

Luminaire Tested: **E2-SB-3T5-UDU-2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89168
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-UDU-2
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER
BLADE
WITH LAMP ISOLATORS
Light Source: 54 WATT T5 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

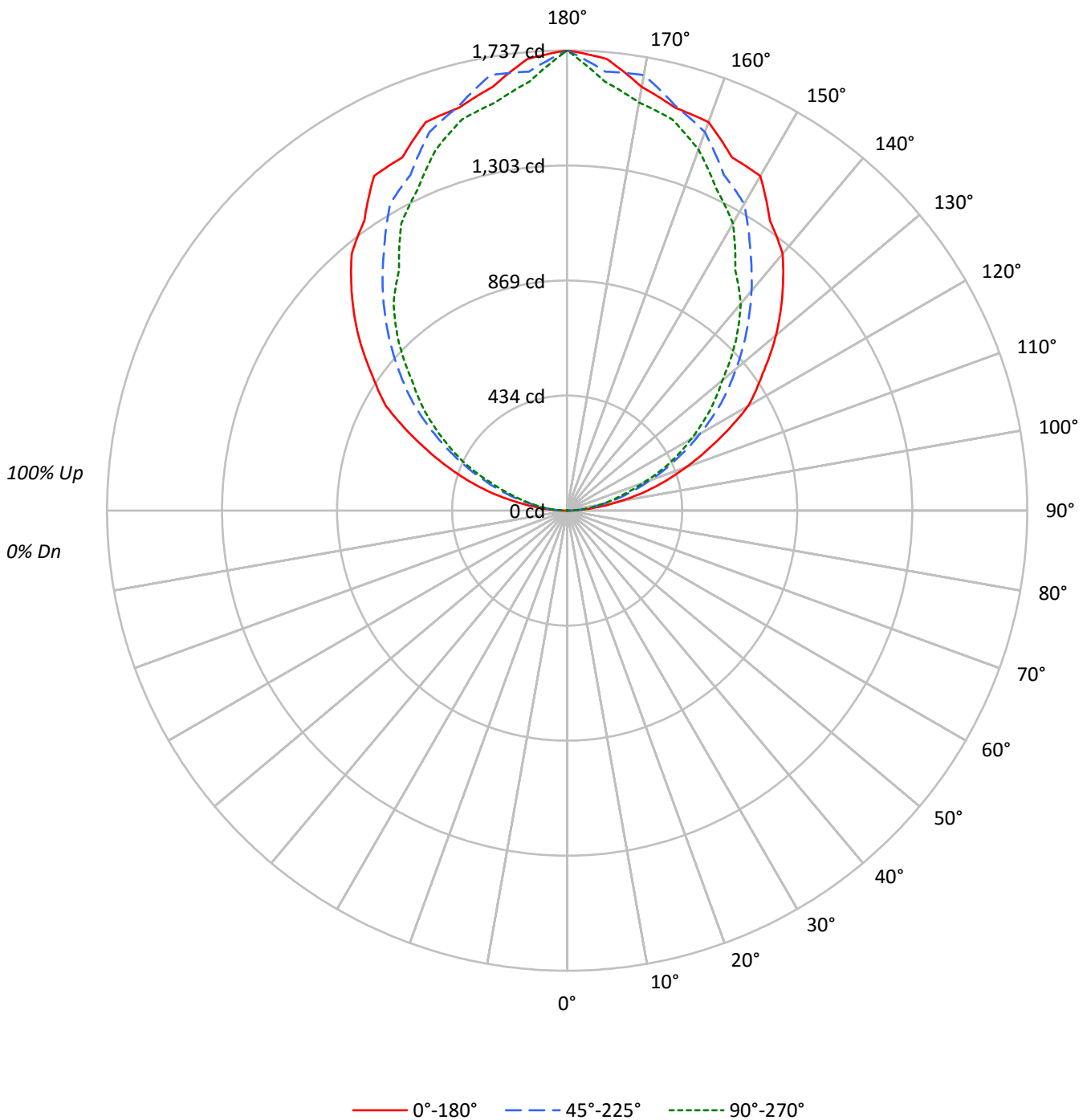
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 4273.7 lumens
Efficiency: 47.5%
Efficacy: 36.2 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Indirect

Input Watts (W): 118
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	45	45	45	45	39	39	39	39	26	26	26	15	15	15	5	5	5	0
1	41	39	38	36	35	34	32	31	23	22	21	13	13	12	4	4	4	0
2	37	34	32	29	32	29	27	25	20	19	18	12	11	10	4	4	3	0
3	34	30	27	24	29	26	23	21	18	16	15	10	9	9	3	3	3	0
4	31	26	23	20	26	23	20	18	16	14	12	9	8	7	3	3	2	0
5	28	23	20	17	24	20	17	15	14	12	11	8	7	6	3	2	2	0
6	26	21	17	15	22	18	15	13	12	10	9	7	6	5	2	2	2	0
7	24	19	15	13	20	16	13	11	11	9	8	6	5	5	2	2	2	0
8	22	17	13	11	19	14	12	10	10	8	7	6	5	4	2	2	1	0
9	20	15	12	10	17	13	10	8	9	7	6	5	4	4	2	1	1	0
10	19	14	11	9	16	12	9	7	8	6	5	5	4	3	2	1	1	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	1	0	0
35°	1	0	0
40°	1	0	0
45°	1	0	0
50°	1	0	0
55°	1	0	0
60°	2	0	0
65°	2	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.1	0.0	0.0
40°-50°	0.1	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	1.7	0.0	0.0
90°-100°	75.0	1.8	0.8
100°-110°	261.9	6.1	2.9
110°-120°	479.8	11.2	5.3
120°-130°	664.8	15.6	7.4
130°-140°	766.3	17.9	8.5
140°-150°	763.6	17.9	8.5
150°-160°	656.8	15.4	7.3
160°-170°	445.5	10.4	5.0
170°-180°	158.0	3.7	1.8
0°-30°	0.1	0.0	0.0
0°-40°	0.1	0.0	0.0
0°-60°	0.2	0.0	0.0
0°-90°	1.9	0.0	0.0
90°-120°	816.7	19.1	9.1
90°-150°	3011.5	70.5	33.5
90°-180°	4272.0	100.0	47.5
0°-180°	4273.7	100.0	47.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	6	6	6	6	6	13
95°	83	63	57	58	59	101
105°	341	268	228	212	204	359
115°	625	522	452	430	430	623
125°	901	818	711	662	658	810
135°	1149	1072	958	919	899	887
145°	1335	1311	1204	1115	1107	845
155°	1471	1519	1399	1360	1336	689
165°	1574	1638	1581	1567	1529	448
175°	1712	1619	1663	1669	1626	161
180°	1737	1737	1737	1737	1737	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.1	0.1	0.1	0.1	0.1
5°	0.0	0.1	0.1	0.1	0.0
10°	0.1	0.2	0.1	0.2	0.1
15°	0.0	0.1	0.0	0.1	0.1
20°	0.0	0.0	0.1	0.1	0.1
25°	0.0	0.1	0.1	0.1	0.1
30°	0.1	0.1	0.1	0.1	0.0
35°	0.1	0.1	0.1	0.1	0.1
40°	0.1	0.1	0.0	0.1	0.1
45°	0.1	0.1	0.0	0.1	0.1
50°	0.1	0.0	0.0	0.1	0.1
55°	0.2	0.1	0.0	0.0	0.0
60°	0.2	0.1	0.0	0.0	0.0
65°	0.2	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
90°	6.2	5.8	6.1	6.4	6.4
95°	82.8	63.1	57.1	57.9	58.6
100°	203.9	153.1	131.2	129.7	126.2
105°	341.1	267.6	227.6	212.0	203.5
110°	476.3	396.8	330.7	315.6	304.8
115°	625.1	522.5	451.6	429.6	429.5
120°	789.5	675.3	577.8	541.6	540.0
125°	901.0	817.9	710.8	662.3	657.5
130°	1029.1	955.3	832.6	803.5	764.8
135°	1149.2	1072.3	958.2	919.2	898.6
140°	1265.7	1195.6	1083.0	1016.9	1019.7
145°	1335.1	1310.8	1204.4	1115.1	1106.8
150°	1458.2	1423.1	1336.8	1250.7	1251.7
155°	1471.3	1519.1	1398.8	1360.4	1336.1
160°	1560.3	1558.3	1520.0	1454.8	1449.5
165°	1574.5	1637.9	1581.3	1566.7	1529.2
170°	1623.4	1598.7	1669.1	1648.7	1563.8
175°	1711.6	1619.0	1663.1	1668.6	1625.9
180°	1737.1	1737.1	1737.1	1737.1	1737.1

(END OF REPORT)