

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: 89164

Luminaire Tested: **E2-SB-3T5-DXD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89164
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-DXD-1
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

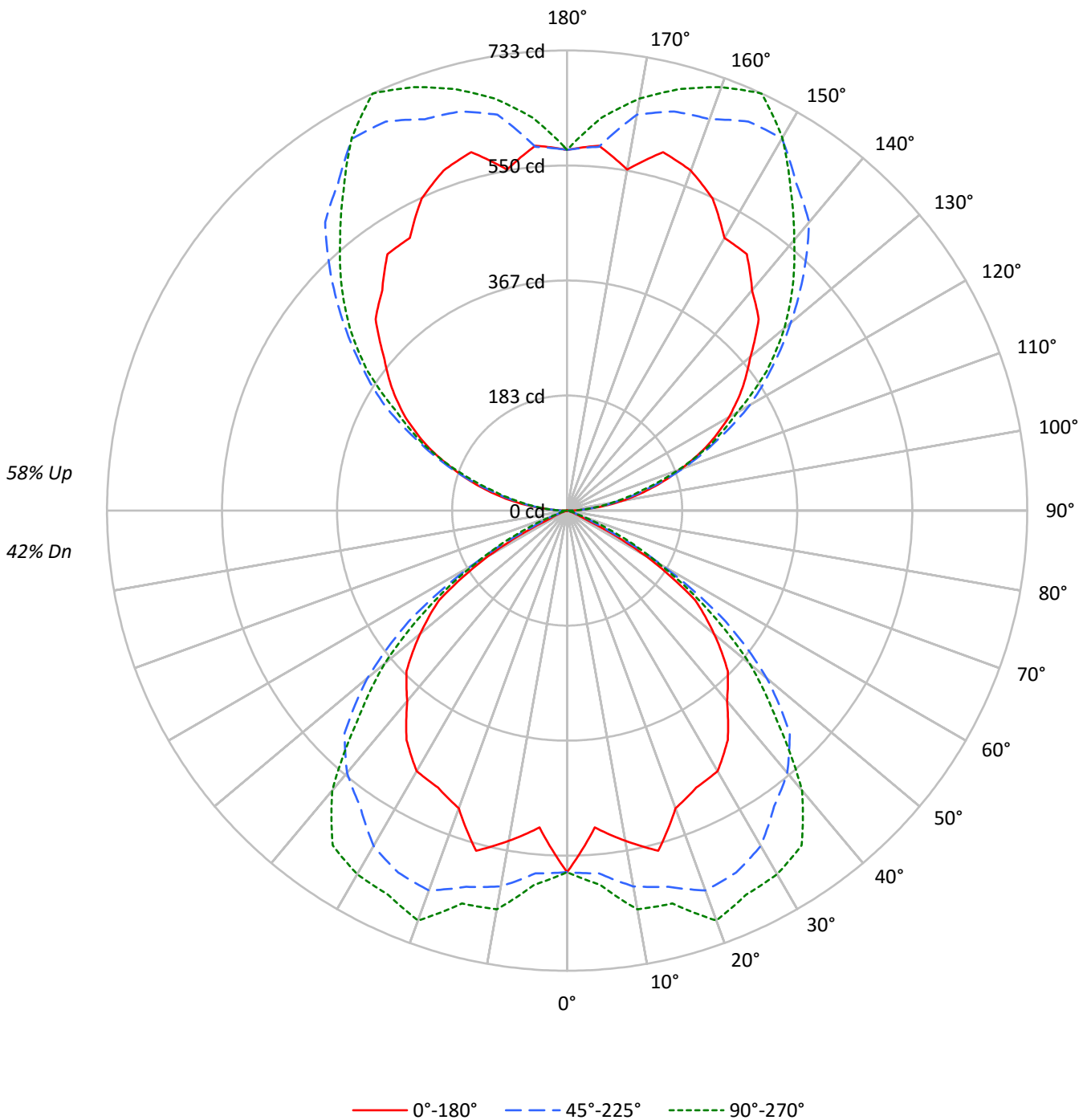
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 3685.4 lumens
Efficiency: 81.9%
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.59 / 1.53
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: General Diffuse

Input Watts (W): 59
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	86	86	86	86	79	79	79	79	65	65	65	52	52	52	40	40	40	35
1	79	76	73	71	73	70	67	65	58	56	55	47	46	45	37	36	36	31
2	73	67	63	59	66	62	58	55	51	49	46	42	40	38	33	32	31	27
3	67	60	54	50	61	55	50	46	46	42	39	37	35	33	30	28	27	23
4	61	53	47	42	56	49	43	39	41	37	34	34	31	29	27	25	23	20
5	56	47	41	36	51	44	38	34	37	33	29	30	27	25	24	22	21	18
6	52	42	36	31	47	39	34	30	33	29	26	27	24	22	22	20	18	16
7	48	38	32	28	44	35	30	26	30	26	23	25	22	19	20	18	16	14
8	44	35	29	24	41	32	27	23	27	23	20	23	20	17	18	16	14	12
9	41	32	26	22	38	29	24	20	25	21	18	21	18	15	17	15	13	11
10	38	29	23	19	35	27	22	18	23	19	16	19	16	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2685	2685	2685
5°	2354	2608	2665
10°	2493	2659	2772
15°	2649	2662	2709
20°	2432	2732	2850
25°	2411	2689	2737
30°	2462	2617	2702
35°	2400	2467	2641
40°	2255	2387	2389
45°	2204	2255	1973
50°	2018	1936	1633
55°	1810	1506	1207
60°	1184	901	780
65°	274	324	417
70°	70	94	89
75°	39	64	33
80°	16	40	12
85°	6	17	4



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	55.6	1.5	1.2
10°-20°	173.8	4.7	3.9
20°-30°	281.6	7.6	6.3
30°-40°	354.3	9.6	7.9
40°-50°	355.0	9.6	7.9
50°-60°	256.6	7.0	5.7
60°-70°	75.0	2.0	1.7
70°-80°	8.8	0.2	0.2
80°-90°	2.6	0.1	0.1
90°-100°	41.5	1.1	0.9
100°-110°	144.2	3.9	3.2
110°-120°	262.9	7.1	5.8
120°-130°	353.6	9.6	7.9
130°-140°	395.0	10.7	8.8
140°-150°	378.2	10.3	8.4
150°-160°	304.3	8.3	6.8
160°-170°	183.9	5.0	4.1
170°-180°	58.5	1.6	1.3
0°-30°	511.0	13.9	11.4
0°-40°	865.3	23.5	19.2
0°-60°	1476.9	40.1	32.8
0°-90°	1563.3	42.4	34.7
90°-120°	448.7	12.2	10.0
90°-150°	1575.5	42.7	35.0
90°-180°	2122.0	57.6	47.2
0°-180°	3685.4	100.0	81.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	507	575	580	588	598	50
15°	561	591	620	647	648	153
25°	487	558	636	668	675	226
35°	446	529	575	624	651	277
45°	362	451	501	485	472	275
55°	249	340	308	278	271	212
65°	29	40	59	80	85	51
75°	3	6	10	9	6	3
85°	0	1	2	1	1	1
90°	3	4	4	4	4	6
95°	36	35	34	33	34	44
105°	140	152	131	124	122	148
115°	248	298	262	256	255	244
125°	341	434	399	390	388	305
135°	431	529	532	519	509	329
145°	499	580	636	638	621	307
155°	548	613	684	717	733	251
165°	591	617	658	679	695	164
175°	583	637	582	617	628	54
180°	575	575	575	575	575	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	575.9	575.9	575.9	575.9	575.9
5°	506.7	575.4	580.0	588.4	598.2
10°	534.2	572.6	607.8	618.9	645.0
15°	561.0	591.1	620.4	647.4	647.9
20°	504.9	567.7	643.9	668.2	694.9
25°	486.8	558.1	636.3	668.0	675.0
30°	479.2	554.5	616.9	631.4	668.9
35°	446.0	528.8	574.9	624.5	651.2
40°	396.1	499.7	545.4	574.8	582.3
45°	361.9	451.0	501.3	485.1	471.8
50°	305.6	407.1	415.1	376.1	379.8
55°	248.9	339.9	308.5	278.5	270.7
60°	145.1	195.2	174.5	161.9	167.2
65°	29.2	40.2	58.8	80.2	84.6
70°	6.3	10.0	15.7	24.9	16.9
75°	2.8	5.5	9.8	9.4	5.8
80°	0.9	2.8	5.4	4.3	1.9
85°	0.2	0.9	2.0	1.4	0.6
90°	3.0	3.8	3.8	3.7	4.0
95°	36.2	34.9	34.3	32.9	34.1
100°	89.0	87.1	77.3	75.1	73.2
105°	140.1	151.9	130.8	124.4	122.0
110°	192.1	218.2	196.7	185.3	187.4
115°	247.8	297.6	261.9	256.4	254.8
120°	297.5	360.8	335.8	323.3	312.4
125°	341.0	434.1	399.1	389.9	388.3
130°	381.0	483.6	464.8	455.9	451.5
135°	431.4	528.9	532.5	519.2	508.6
140°	458.2	569.5	599.7	578.6	562.7
145°	498.8	580.0	636.3	638.0	621.2
150°	501.2	606.0	684.4	680.7	685.9
155°	548.2	612.9	683.7	717.4	733.1
160°	576.2	622.9	663.4	719.1	717.8
165°	591.1	617.0	658.1	679.0	695.1
170°	551.5	597.8	640.3	664.8	666.5
175°	583.4	636.8	581.7	616.9	628.0
180°	574.7	574.7	574.7	574.7	574.7

(END OF REPORT)