

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: 89095

Luminaire Tested: **E2-SB-3T5-DL-5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89095
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-DL-5
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER
BLADE
WITH DOWNLIGHT ISOLATORS
Light Source: 54 WATT T5 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

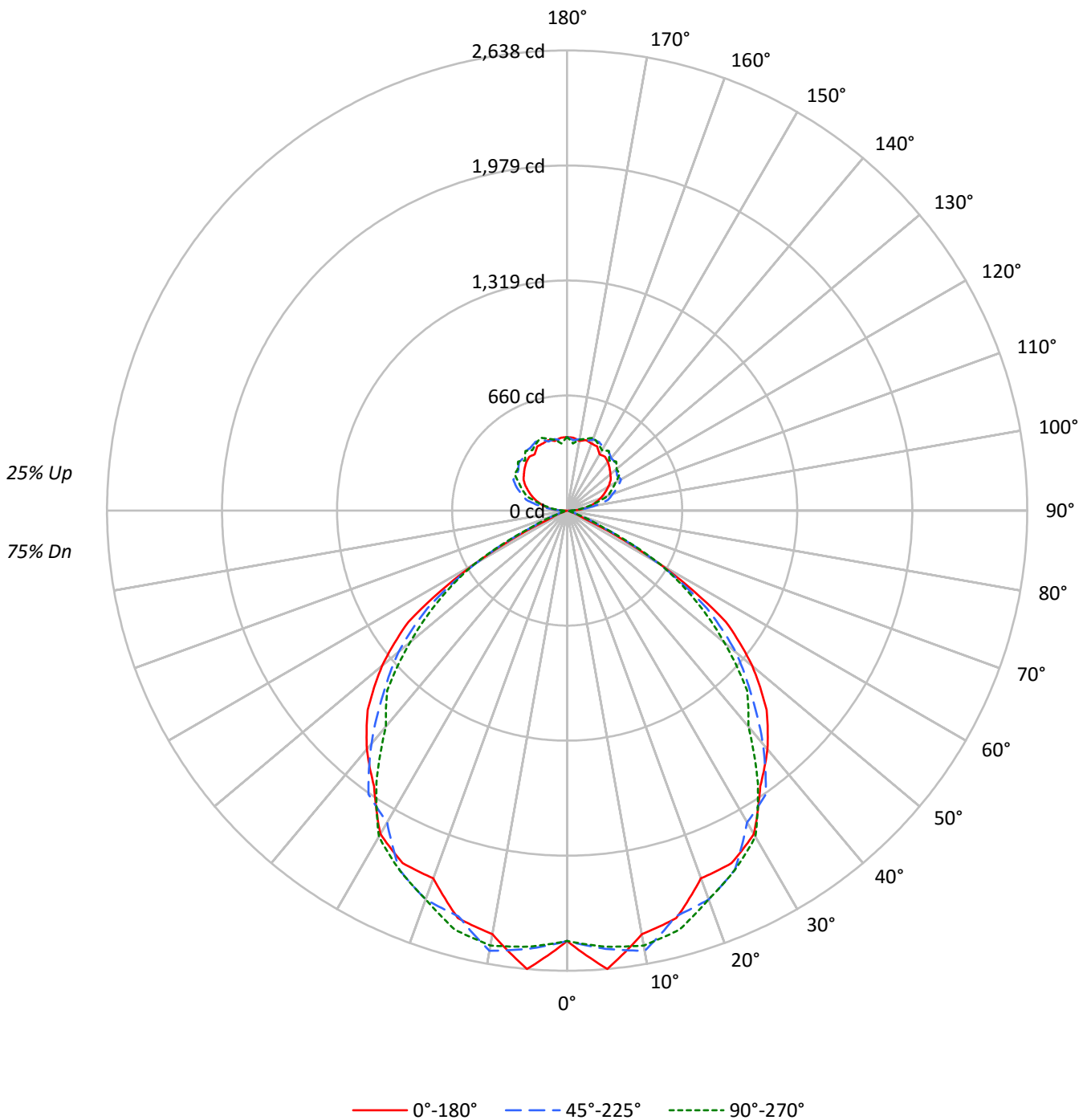
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 7311.7 lumens
Efficiency: 54.2%
Efficacy: 41.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 177
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	61	61	61	61	58	58	58	58	53	53	53	48	48	48	43	43	43	41
1	57	55	53	51	54	52	51	49	48	47	45	43	43	42	40	39	38	36
2	53	49	46	43	50	47	44	42	43	41	39	39	38	36	36	35	33	32
3	48	44	40	37	46	42	39	36	38	36	34	35	33	31	32	31	29	28
4	45	39	35	32	43	38	34	31	35	32	29	32	29	28	29	27	26	24
5	41	35	31	28	39	34	30	27	31	28	26	29	26	24	27	25	23	21
6	38	32	28	25	36	31	27	24	28	25	23	26	24	21	24	22	20	19
7	35	29	25	22	34	28	24	21	26	23	20	24	21	19	22	20	18	17
8	33	26	22	19	31	25	22	19	24	20	18	22	19	17	20	18	16	15
9	31	24	20	17	29	23	20	17	22	19	16	20	18	16	19	17	15	14
10	29	22	18	16	28	22	18	16	20	17	15	19	16	14	18	15	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11506	11506	11506
5°	12258	11340	11182
10°	11509	11211	10880
15°	11422	10330	10398
20°	10807	10065	9726
25°	11049	9606	9221
30°	11004	8756	8720
35°	10381	8522	7729
40°	10171	7640	6629
45°	9847	6711	6100
50°	9144	5885	5055
55°	8077	4776	3999
60°	4997	3100	2887
65°	1070	1152	1106
70°	276	334	216
75°	160	187	81
80°	112	122	33
85°	124	96	32



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	241.7	3.3	1.8
10°-20°	687.5	9.4	5.1
20°-30°	1037.4	14.2	7.7
30°-40°	1213.7	16.6	9.0
40°-50°	1170.7	16.0	8.7
50°-60°	861.4	11.8	6.4
60°-70°	253.5	3.5	1.9
70°-80°	26.8	0.4	0.2
80°-90°	13.2	0.2	0.1
90°-100°	86.3	1.2	0.6
100°-110°	213.6	2.9	1.6
110°-120°	292.4	4.0	2.2
120°-130°	313.3	4.3	2.3
130°-140°	294.8	4.0	2.2
140°-150°	250.4	3.4	1.9
150°-160°	196.2	2.7	1.5
160°-170°	119.4	1.6	0.9
170°-180°	39.3	0.5	0.3
0°-30°	1966.6	26.9	14.6
0°-40°	3180.3	43.5	23.6
0°-60°	5212.4	71.3	38.6
0°-90°	5505.9	75.3	40.8
90°-120°	592.3	8.1	4.4
90°-150°	1450.9	19.8	10.7
90°-180°	1806.0	24.7	13.4
0°-180°	7311.7	100.0	54.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2468	2468	2468	2468	2468	
5°	2638	2514	2522	2651	2510	244
15°	2419	2402	2407	2479	2487	674
25°	2230	2289	2273	2216	2274	1023
35°	1929	1978	1986	1914	1906	1219
45°	1617	1628	1492	1446	1458	1237
55°	1111	1064	978	908	897	941
65°	114	134	209	259	224	212
75°	12	22	28	23	14	14
85°	4	7	11	12	5	5
90°	21	17	18	25	15	17
95°	82	87	79	74	55	72
105°	163	195	244	211	171	173
115°	237	283	321	322	283	235
125°	305	337	350	379	367	270
135°	344	375	391	408	397	266
145°	377	392	414	404	417	234
155°	406	440	433	442	422	184
165°	418	434	409	421	426	117
175°	419	422	405	402	386	40
180°	421	421	421	421	421	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2467.8	2467.8	2467.8	2467.8	2467.8
5°	2638.1	2513.5	2521.8	2651.3	2509.7
10°	2466.4	2507.0	2562.6	2471.8	2531.6
15°	2418.8	2401.8	2407.2	2479.2	2487.0
20°	2243.6	2346.9	2372.5	2360.0	2371.4
25°	2230.5	2289.2	2273.0	2216.2	2274.1
30°	2141.4	2132.3	2063.9	2148.8	2158.7
35°	1929.4	1977.6	1985.6	1914.3	1906.0
40°	1786.9	1818.2	1745.9	1660.0	1615.8
45°	1616.7	1627.7	1492.0	1445.5	1458.4
50°	1384.7	1398.6	1261.9	1193.5	1175.5
55°	1110.8	1064.3	978.5	908.5	897.0
60°	612.5	584.4	600.7	600.9	618.7
65°	114.2	133.7	208.7	258.9	224.1
70°	24.8	39.4	55.9	59.9	41.0
75°	11.6	21.6	28.5	22.8	14.2
80°	6.1	12.1	16.6	12.4	5.3
85°	4.5	7.1	11.4	11.7	4.6
90°	20.8	16.9	17.9	24.8	15.3
95°	81.6	87.3	79.0	73.9	55.1
100°	125.3	148.5	162.1	146.4	107.0
105°	163.4	195.0	244.2	211.2	170.7
110°	201.8	251.1	276.9	274.8	247.8
115°	236.7	282.8	320.7	321.8	282.6
120°	271.9	314.6	356.0	355.4	320.1
125°	304.7	337.2	350.2	378.8	367.4
130°	323.6	360.8	365.0	393.9	369.4
135°	343.9	375.4	390.6	408.2	397.4
140°	363.7	394.2	391.9	381.7	374.3
145°	376.9	391.8	414.0	404.1	417.0
150°	372.4	411.2	417.3	420.0	399.3
155°	405.5	439.8	433.1	441.6	421.7
160°	408.6	420.2	433.9	418.1	443.9
165°	418.3	434.2	409.4	421.1	425.7
170°	404.8	400.8	415.9	433.1	412.8
175°	419.1	421.5	404.8	402.0	385.9
180°	421.1	421.1	421.1	421.1	421.1

(END OF REPORT)