

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: 89081

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89081
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-1T5-DL-3
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 LAMP
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

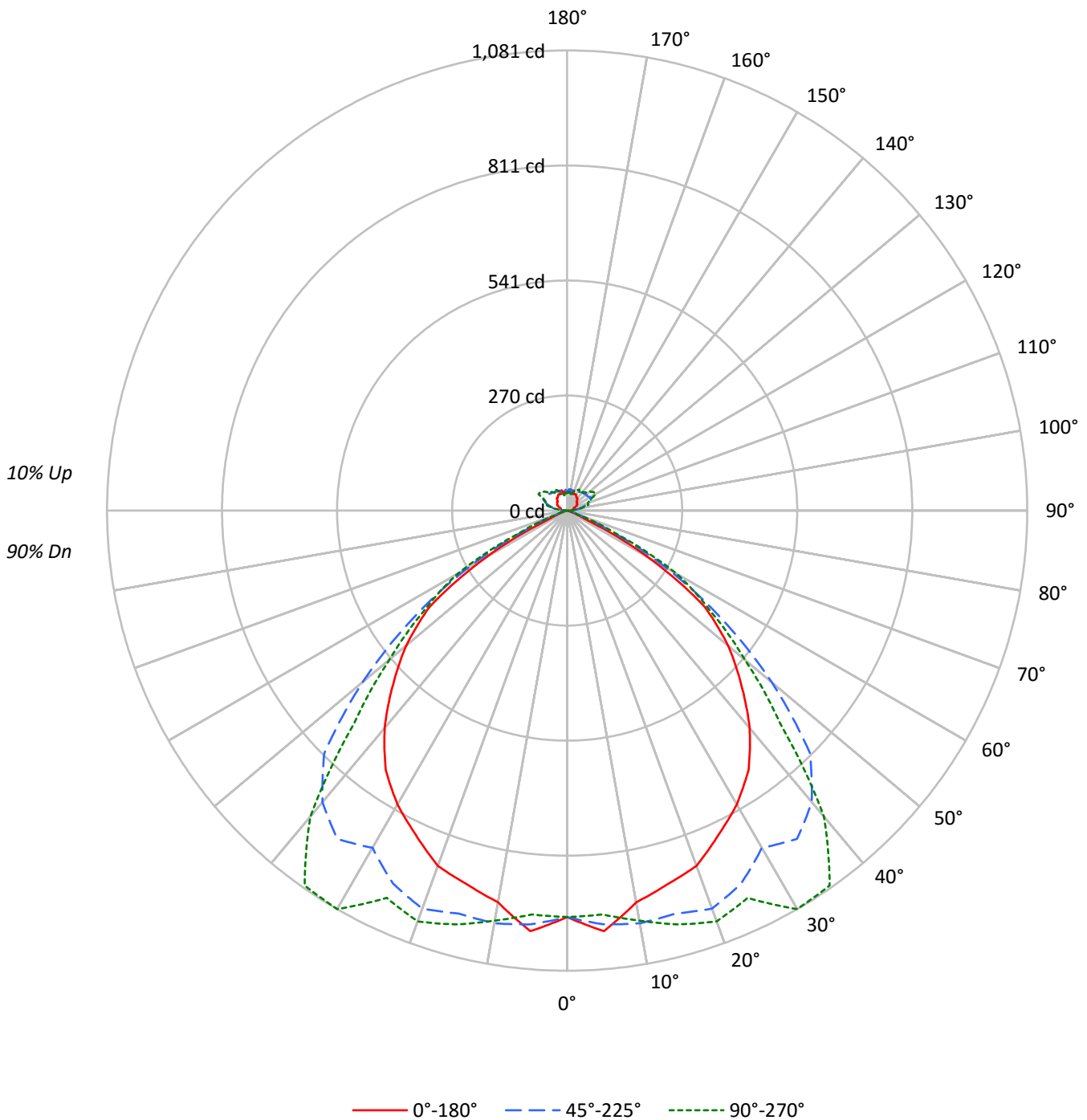
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2735.3 lumens
Efficiency: 60.8%
Efficacy: 46.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.58 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Direct

Input Watts (W): 59
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	0
RCR																		
0	71	71	71	71	69	69	69	69	64	64	64	60	60	60	56	56	56	55
1	66	64	62	60	64	62	60	58	58	57	56	55	54	53	52	51	50	49
2	61	57	54	51	59	55	52	50	52	50	48	50	48	46	47	45	44	42
3	56	51	47	43	54	50	46	43	47	44	41	45	42	40	42	40	38	37
4	52	46	41	37	50	44	40	37	42	39	36	40	37	35	38	36	34	32
5	48	41	36	33	46	40	35	32	38	34	31	36	33	30	35	32	30	28
6	44	37	32	29	43	36	32	28	35	31	28	33	30	27	32	29	26	25
7	41	34	29	25	40	33	28	25	31	27	24	30	27	24	29	26	23	22
8	38	31	26	23	37	30	26	22	29	25	22	28	24	21	26	23	21	20
9	36	28	23	20	35	28	23	20	26	22	20	25	22	19	24	21	19	18
10	33	26	21	18	32	25	21	18	24	21	18	23	20	18	23	19	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4451	4451	4451
5°	4608	4388	4243
10°	4360	4306	4203
15°	4292	4206	4208
20°	4278	4221	4212
25°	4165	4087	4070
30°	4096	3881	4366
35°	3998	4041	4359
40°	3797	3911	3851
45°	3523	3629	2961
50°	3260	2926	2343
55°	2871	2164	1830
60°	1819	1384	1391
65°	390	576	610
70°	118	159	107
75°	72	84	37
80°	48	54	15
85°	47	31	11



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	93.0	3.4	2.1
10°-20°	277.0	10.1	6.2
20°-30°	442.3	16.2	9.8
30°-40°	571.7	20.9	12.7
40°-50°	557.3	20.4	12.4
50°-60°	387.3	14.2	8.6
60°-70°	118.5	4.3	2.6
70°-80°	12.2	0.4	0.3
80°-90°	4.2	0.2	0.1
90°-100°	18.4	0.7	0.4
100°-110°	40.6	1.5	0.9
110°-120°	50.0	1.8	1.1
120°-130°	50.7	1.9	1.1
130°-140°	40.8	1.5	0.9
140°-150°	31.8	1.2	0.7
150°-160°	22.6	0.8	0.5
160°-170°	12.7	0.5	0.3
170°-180°	4.2	0.2	0.1
0°-30°	812.3	29.7	18.1
0°-40°	1384.0	50.6	30.8
0°-60°	2328.6	85.1	51.7
0°-90°	2463.5	90.1	54.7
90°-120°	109.0	4.0	2.4
90°-150°	232.4	8.5	5.2
90°-180°	272.0	9.9	6.0
0°-180°	2735.3	100.0	60.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	992	980	976	999	952	92
15°	909	959	980	1018	1006	257
25°	841	913	967	1004	1004	389
35°	743	826	942	1039	1075	462
45°	578	713	807	760	708	447
55°	395	498	443	419	410	336
65°	42	60	104	130	124	78
75°	5	9	13	11	6	6
85°	2	3	4	3	2	2
90°	5	6	5	5	4	3
95°	14	20	18	16	12	10
105°	16	33	43	50	51	16
115°	22	37	62	61	58	22
125°	28	43	58	75	76	26
135°	31	43	56	63	59	25
145°	38	42	52	60	50	24
155°	44	43	49	55	52	20
165°	50	44	43	46	41	13
175°	47	45	50	41	44	4
180°	41	41	41	41	41	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.7	954.7	954.7	954.7	954.7
5°	991.7	980.5	975.7	998.7	952.3
10°	934.4	954.7	984.3	989.1	978.1
15°	908.9	959.1	980.2	1017.6	1006.4
20°	888.2	935.6	994.9	1029.4	1027.0
25°	840.9	913.0	967.0	1003.7	1003.8
30°	797.1	863.4	914.7	1055.2	1080.9
35°	743.0	826.3	941.5	1038.7	1075.0
40°	667.0	757.5	893.9	927.2	938.8
45°	578.4	712.6	806.8	760.5	708.0
50°	493.6	624.1	627.3	561.6	544.8
55°	394.9	497.9	443.3	419.3	410.4
60°	222.9	272.9	268.1	284.4	298.1
65°	41.6	60.5	104.4	130.3	123.6
70°	10.6	16.5	26.6	30.3	20.2
75°	5.2	9.2	12.7	10.6	6.4
80°	2.6	5.1	7.3	5.3	2.4
85°	1.7	2.6	3.7	3.3	1.5
90°	5.0	5.7	4.8	4.8	3.8
95°	13.7	20.1	18.2	15.9	11.7
100°	14.6	26.1	32.8	34.1	32.7
105°	15.5	33.1	43.1	50.0	51.3
110°	15.9	35.1	53.9	56.1	52.2
115°	22.2	36.6	61.6	60.9	58.3
120°	27.6	41.4	62.8	72.6	77.6
125°	28.0	43.4	58.3	74.7	75.7
130°	31.0	42.3	58.6	67.4	69.3
135°	31.3	43.3	56.2	63.0	59.1
140°	37.9	44.1	55.7	62.1	57.3
145°	38.0	41.7	52.5	59.7	50.5
150°	42.1	45.0	52.2	56.2	56.9
155°	43.5	42.9	49.0	54.8	51.8
160°	40.8	45.1	50.0	48.4	46.7
165°	49.6	43.9	42.7	45.5	41.2
170°	41.6	39.5	50.7	41.5	36.1
175°	47.3	45.4	50.5	40.7	44.5
180°	41.2	41.2	41.2	41.2	41.2

(END OF REPORT)