

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: 89161

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89161
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-DUD-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

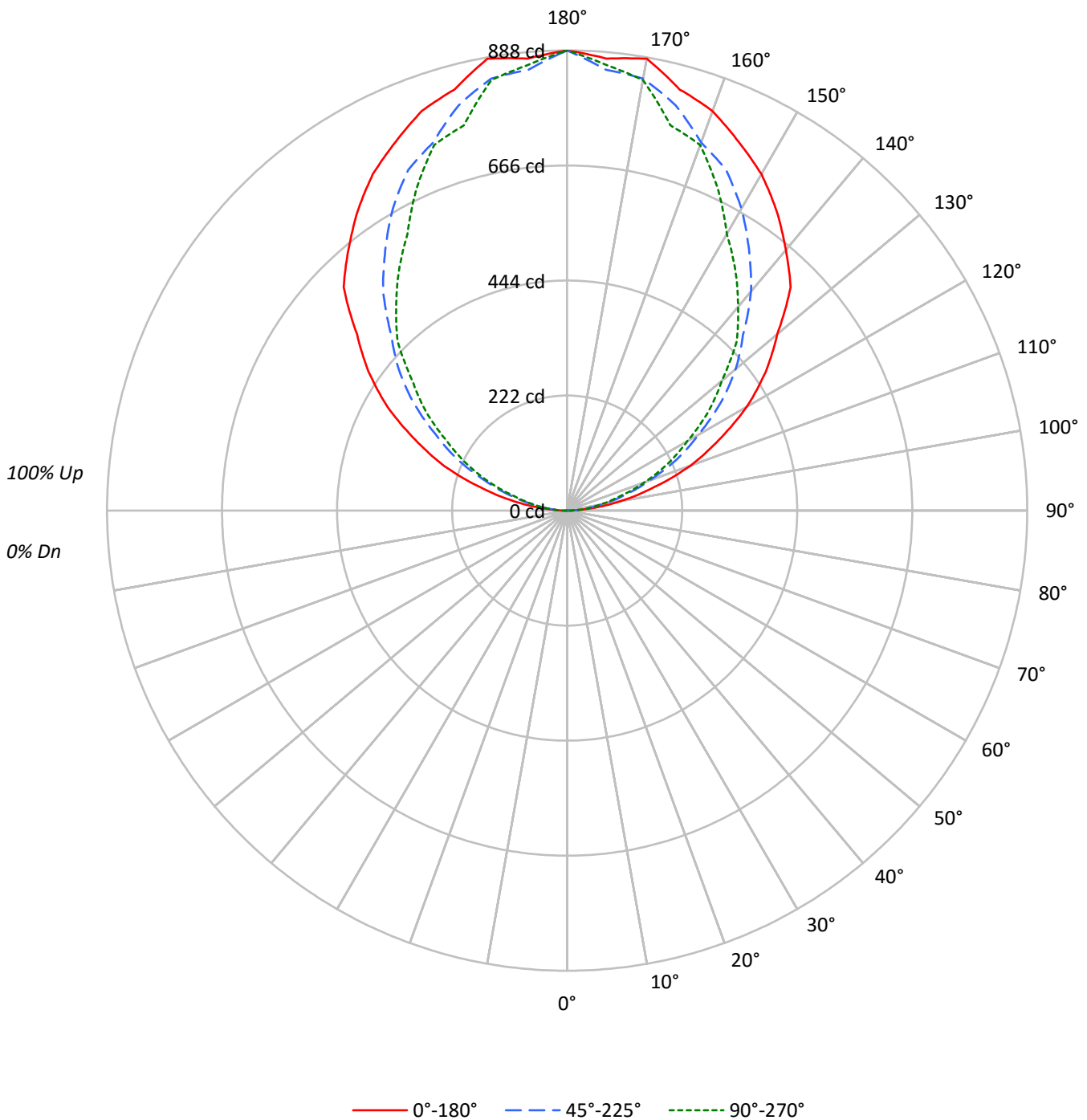
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2185.2 lumens
Efficiency: 48.6%
Efficacy: 37.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Indirect

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													
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10										
RCR																														
0	46	46	46	46	40	40	40	40	27	27	27	16	16	16	5	5	5	0												
1	42	40	38	37	36	34	33	32	23	23	22	14	13	13	4	4	4	0												
2	38	35	32	30	33	30	28	26	21	19	18	12	11	11	4	4	3	0												
3	35	31	27	25	30	26	24	22	18	16	15	10	10	9	3	3	3	0												
4	32	27	24	21	27	23	20	18	16	14	13	9	8	8	3	3	2	0												
5	29	24	20	18	25	21	18	15	14	12	11	8	7	6	3	2	2	0												
6	27	21	18	15	23	18	15	13	13	11	9	7	6	6	2	2	2	0												
7	24	19	16	13	21	16	13	11	11	9	8	7	6	5	2	2	2	0												
8	23	17	14	11	19	15	12	10	10	8	7	6	5	4	2	2	1	0												
9	21	15	12	10	18	13	11	9	9	7	6	5	4	4	2	1	1	0												
10	19	14	11	9	17	12	9	8	8	7	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	1
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	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°	1	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°	0.0	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°	0.9	0.0	0.0
90°-100°	38.1	1.7	0.8
100°-110°	133.5	6.1	3.0
110°-120°	245.2	11.2	5.4
120°-130°	337.4	15.4	7.5
130°-140°	390.0	17.8	8.7
140°-150°	390.5	17.9	8.7
150°-160°	337.5	15.4	7.5
160°-170°	229.8	10.5	5.1
170°-180°	82.1	3.8	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°	1.1	0.1	0.0
90°-120°	416.7	19.1	9.3
90°-150°	1534.7	70.2	34.1
90°-180°	2184.0	99.9	48.5
0°-180°	2185.2	100.0	48.6

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°	4	3	3	3	4	7
95°	41	32	29	30	31	52
105°	173	136	115	108	103	186
115°	323	272	233	219	214	322
125°	468	413	361	338	333	418
135°	610	548	480	453	463	465
145°	705	666	612	572	566	441
155°	784	776	726	701	687	362
165°	841	841	810	806	770	239
175°	876	865	854	856	863	84
180°	888	888	888	888	888	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
5°	0.1	0.0	0.1	0.1	0.0
10°	0.1	0.1	0.1	0.0	0.2
15°	0.0	0.1	0.0	0.1	0.1
20°	0.1	0.1	0.1	0.1	0.1
25°	0.1	0.0	0.0	0.0	0.1
30°	0.0	0.1	0.1	0.1	0.1
35°	0.1	0.1	0.1	0.1	0.1
40°	0.1	0.1	0.1	0.0	0.1
45°	0.1	0.0	0.1	0.0	0.0
50°	0.2	0.0	0.0	0.0	0.0
55°	0.2	0.1	0.0	0.0	0.0
60°	0.2	0.1	0.0	0.0	0.0
65°	0.1	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°	3.9	3.3	3.1	3.2	3.5
95°	41.2	32.4	28.6	29.5	30.6
100°	103.7	79.9	66.2	64.0	63.7
105°	173.3	136.2	114.7	108.1	103.4
110°	252.9	200.4	167.9	160.9	158.8
115°	323.1	271.9	233.4	219.0	214.5
120°	400.2	341.9	292.2	273.0	267.5
125°	468.0	413.0	361.2	338.5	332.8
130°	529.2	486.8	424.4	395.7	389.8
135°	610.0	548.3	480.3	453.4	462.8
140°	656.6	621.8	552.3	518.2	513.3
145°	705.0	666.2	612.1	572.3	566.1
150°	749.7	727.3	672.7	641.2	616.3
155°	784.3	776.3	725.5	700.8	687.0
160°	820.5	817.0	755.9	744.3	750.6
165°	841.0	840.8	809.6	805.7	769.8
170°	885.3	825.8	846.5	856.2	843.4
175°	875.5	864.6	854.1	856.4	863.4
180°	887.9	887.9	887.9	887.9	887.9

(END OF REPORT)