

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: 89078

Luminaire Tested: **E2-SB-1T5-DL-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89078
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-1T5-DL-6
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

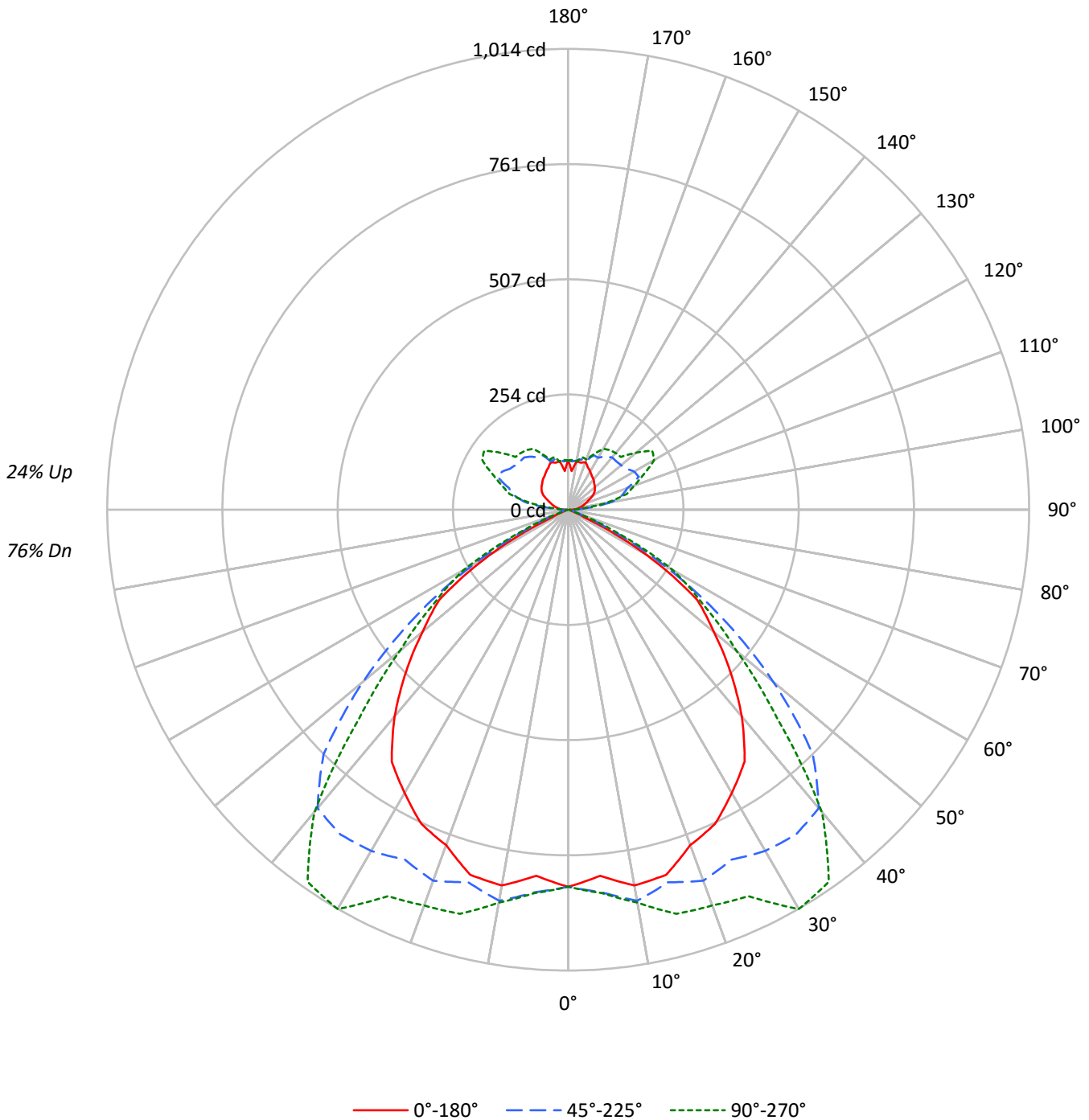
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2956.8 lumens
Efficiency: 65.7%
Efficacy: 50.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.63 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

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	74	74	74	74	71	71	71	71	64	64	64		58	58	58		52	52	52	50
1	69	67	64	62	66	64	62	60	58	56	55		53	52	51		48	47	46	44
2	64	59	56	53	61	57	53	51	52	49	47		48	46	44		43	42	41	38
3	59	53	48	45	56	51	47	43	46	43	41		43	40	38		39	37	35	33
4	54	47	42	38	51	45	41	37	42	38	35		38	35	33		35	33	31	29
5	50	42	37	33	47	41	36	32	38	34	31		35	31	29		32	29	27	26
6	46	38	33	29	44	37	32	28	34	30	27		31	28	25		29	26	24	23
7	43	35	29	26	41	33	28	25	31	27	24		29	25	23		27	24	21	20
8	40	31	26	23	38	30	26	22	28	24	21		26	23	20		24	21	19	18
9	37	29	24	20	35	28	23	20	26	22	19		24	21	18		22	19	17	16
10	34	26	22	18	33	26	21	18	24	20	17		22	19	16		21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3868	3868	3868
5°	3757	3799	3773
10°	3917	3822	3773
15°	3928	3642	3849
20°	3783	3685	3801
25°	3781	3591	3803
30°	3697	3678	4098
35°	3639	3745	4053
40°	3379	3752	3561
45°	3070	3423	2721
50°	2758	2747	2076
55°	2520	1997	1611
60°	1633	1228	1237
65°	349	512	556
70°	107	142	94
75°	66	78	33
80°	48	51	13
85°	52	37	15



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	80.7	2.7	1.8
10°-20°	244.6	8.3	5.4
20°-30°	399.1	13.5	8.9
30°-40°	528.9	17.9	11.8
40°-50°	512.9	17.3	11.4
50°-60°	349.0	11.8	7.8
60°-70°	106.4	3.6	2.4
70°-80°	11.2	0.4	0.2
80°-90°	5.1	0.2	0.1
90°-100°	43.4	1.5	1.0
100°-110°	109.3	3.7	2.4
110°-120°	138.0	4.7	3.1
120°-130°	137.0	4.6	3.0
130°-140°	107.9	3.6	2.4
140°-150°	83.5	2.8	1.9
150°-160°	57.8	2.0	1.3
160°-170°	31.9	1.1	0.7
170°-180°	10.1	0.3	0.2
0°-30°	724.3	24.5	16.1
0°-40°	1253.2	42.4	27.8
0°-60°	2115.1	71.5	47.0
0°-90°	2237.9	75.7	49.7
90°-120°	290.7	9.8	6.5
90°-150°	619.1	20.9	13.8
90°-180°	719.0	24.3	16.0
0°-180°	2956.8	100.0	65.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	808	829	845	857	847	79
15°	832	836	849	893	921	232
25°	763	808	850	918	938	350
35°	676	741	873	964	999	417
45°	504	643	761	696	650	389
55°	346	455	409	374	361	293
65°	37	55	93	121	113	70
75°	5	8	12	10	6	6
85°	2	3	4	4	2	2
90°	5	6	7	11	6	4
95°	19	44	40	42	28	15
105°	33	82	123	138	133	35
115°	50	101	171	171	182	50
125°	71	107	157	211	226	63
135°	81	109	150	170	164	63
145°	90	110	142	155	160	57
155°	103	108	132	148	135	48
165°	107	111	115	113	120	31
175°	85	103	107	109	110	9
180°	108	108	108	108	108	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	829.6	829.6	829.6	829.6	829.6
5°	808.5	829.4	844.9	857.4	846.8
10°	839.5	827.0	873.7	868.7	878.0
15°	831.7	836.3	848.7	893.3	920.6
20°	785.3	833.5	868.7	906.6	926.8
25°	763.3	807.6	849.8	917.7	938.0
30°	719.5	788.0	866.9	954.8	1014.5
35°	676.4	741.1	872.6	963.8	999.4
40°	593.7	703.2	857.4	889.5	868.1
45°	504.0	642.7	760.9	695.5	650.4
50°	417.6	567.6	589.0	501.9	482.9
55°	346.5	455.3	409.2	374.3	361.2
60°	200.2	240.0	237.9	255.0	265.1
65°	37.2	55.2	92.7	120.8	112.7
70°	9.6	15.7	23.8	27.6	17.8
75°	4.8	8.5	11.9	9.7	5.8
80°	2.6	4.9	6.9	4.8	2.0
85°	1.9	2.7	4.4	3.9	2.1
90°	4.6	6.3	7.4	11.1	6.5
95°	19.0	43.6	39.6	41.6	27.5
100°	25.3	68.2	96.3	92.8	82.0
105°	32.9	82.2	122.7	138.3	133.2
110°	39.9	101.7	138.5	154.2	154.1
115°	49.8	101.2	171.2	170.7	182.5
120°	62.9	104.6	167.8	204.2	218.3
125°	71.1	106.6	156.8	210.6	225.8
130°	76.7	110.3	152.1	182.6	195.0
135°	80.9	108.6	150.0	169.7	164.1
140°	86.8	106.7	150.1	162.8	162.5
145°	90.5	109.9	142.5	154.7	160.1
150°	96.8	112.8	132.1	145.7	154.4
155°	102.7	107.8	132.3	147.8	135.1
160°	111.2	110.5	112.5	124.5	117.6
165°	107.0	111.0	114.6	113.4	119.7
170°	107.9	102.3	109.7	110.6	108.0
175°	85.0	102.9	106.7	108.9	110.2
180°	108.0	108.0	108.0	108.0	108.0

(END OF REPORT)