

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: 89098

Luminaire Tested: **E2-SB-3T5-DL-2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89098
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-DL-2
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

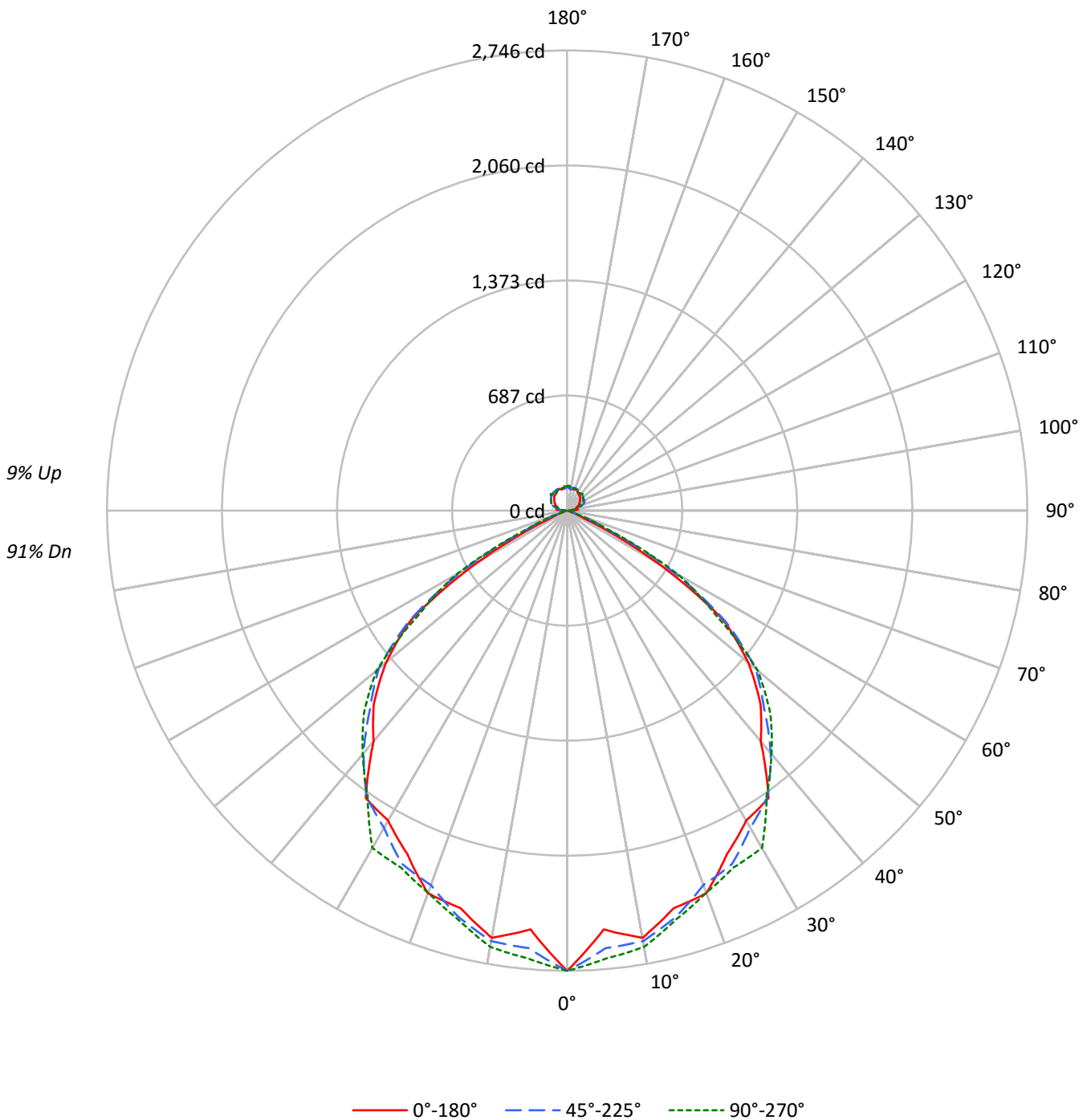
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 6546.4 lumens
Efficiency: 48.5%
Efficacy: 37.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.24 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Direct

Input Watts (W): 177
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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CATALOG NUMBER: E2-SB-3T5-DL-2

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	57	57	57	57	55	55	55	55	51	51	51	48	48	48	45	45	45	44	44	44	44	44	44	44													
1	53	51	49	48	51	49	48	47	47	46	44	44	43	42	42	41	40	39	39	39	39	39	39	39													
2	49	46	43	41	47	44	42	40	42	40	38	40	38	37	38	36	35	34	34	34	34	34	34	34													
3	45	41	37	35	43	40	37	34	38	35	33	36	34	32	34	32	31	30	30	30	30	30	30	30													
4	41	36	33	30	40	36	32	29	34	31	29	32	30	28	31	29	27	26	26	26	26	26	26	26													
5	38	33	29	26	37	32	28	26	31	27	25	29	26	24	28	26	24	23	23	23	23	23	23	23													
6	35	30	26	23	34	29	25	23	28	25	22	26	24	22	25	23	21	20	20	20	20	20	20	20													
7	33	27	23	20	32	26	23	20	25	22	20	24	21	19	23	21	19	18	18	18	18	18	18	18													
8	31	25	21	18	30	24	21	18	23	20	18	22	19	17	21	19	17	16	16	16	16	16	16	16													
9	29	23	19	16	28	22	19	16	21	18	16	20	18	16	20	17	15	14	14	14	14	14	14	14													
10	27	21	17	15	26	20	17	15	20	17	15	19	16	14	18	16	14	13	13	13	13	13	13	13													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12803	12803	12803
5°	11660	11790	11955
10°	12079	11412	11363
15°	11600	10767	10551
20°	11702	10087	9952
25°	11195	9838	9529
30°	10979	9273	9392
35°	11274	8948	8419
40°	10229	8271	7788
45°	9937	7468	7174
50°	9309	6849	6382
55°	8273	5635	4806
60°	4973	3749	3579
65°	1049	1426	1364
70°	283	364	265
75°	169	201	96
80°	124	132	48
85°	143	81	29



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	250.3	3.8	1.9
10°-20°	709.0	10.8	5.3
20°-30°	1070.0	16.3	7.9
30°-40°	1288.1	19.7	9.5
40°-50°	1286.1	19.6	9.5
50°-60°	994.7	15.2	7.4
60°-70°	300.2	4.6	2.2
70°-80°	30.1	0.5	0.2
80°-90°	11.8	0.2	0.1
90°-100°	40.1	0.6	0.3
100°-110°	71.7	1.1	0.5
110°-120°	98.4	1.5	0.7
120°-130°	103.0	1.6	0.8
130°-140°	96.4	1.5	0.7
140°-150°	81.8	1.3	0.6
150°-160°	61.7	0.9	0.5
160°-170°	39.4	0.6	0.3
170°-180°	13.4	0.2	0.1
0°-30°	2029.3	31.0	15.0
0°-40°	3317.4	50.7	24.6
0°-60°	5598.2	85.5	41.5
0°-90°	5940.4	90.7	44.0
90°-120°	210.3	3.2	1.6
90°-150°	491.5	7.5	3.6
90°-180°	606.0	9.3	4.5
0°-180°	6546.4	100.0	48.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2746	2746	2746	2746	2746	
5°	2509	2623	2622	2664	2683	245
15°	2456	2551	2509	2514	2523	702
25°	2260	2293	2328	2334	2350	1048
35°	2095	2026	2085	2085	2076	1273
45°	1632	1660	1660	1666	1715	1249
55°	1138	1176	1154	1131	1078	958
65°	112	156	258	309	276	210
75°	12	24	30	27	17	15
85°	5	7	10	8	4	6
90°	26	18	14	12	8	17
95°	66	53	36	27	22	41
105°	56	69	75	68	59	60
115°	78	88	114	113	103	75
125°	93	106	118	128	118	83
135°	109	110	128	128	139	84
145°	120	127	137	134	128	76
155°	137	129	140	130	135	62
165°	131	141	142	137	140	38
175°	134	139	135	137	149	13
180°	146	146	146	146	146	



TEST NUMBER: 89098

CATALOG NUMBER: E2-SB-3T5-DL-2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2746.2	2746.2	2746.2	2746.2	2746.2
5°	2509.3	2622.9	2621.8	2663.9	2683.2
10°	2588.6	2458.6	2608.6	2615.5	2644.1
15°	2456.5	2551.1	2509.1	2513.5	2523.4
20°	2429.5	2461.7	2377.7	2424.0	2426.7
25°	2260.0	2292.8	2327.8	2334.0	2350.2
30°	2136.5	2180.3	2185.7	2258.8	2325.1
35°	2095.2	2025.9	2084.9	2085.2	2076.0
40°	1797.0	1852.3	1890.3	1883.6	1898.4
45°	1631.5	1659.7	1660.3	1666.5	1715.1
50°	1409.6	1459.0	1468.5	1474.4	1484.2
55°	1137.8	1176.3	1154.4	1130.9	1077.8
60°	609.6	697.9	726.4	731.4	767.0
65°	111.9	156.1	258.4	308.7	276.5
70°	25.5	43.5	60.8	72.2	50.2
75°	12.3	23.5	30.5	26.6	16.8
80°	6.8	13.4	17.9	13.8	7.7
85°	5.2	7.3	9.6	8.4	4.1
90°	25.8	18.2	13.8	12.4	7.6
95°	65.6	53.4	35.9	26.9	22.5
100°	54.4	64.7	50.7	43.8	42.1
105°	56.1	68.6	75.4	68.5	59.2
110°	62.2	81.3	95.7	89.6	82.3
115°	78.1	88.5	114.5	113.4	103.2
120°	83.8	94.1	120.3	122.9	111.1
125°	92.6	106.3	117.6	127.8	117.7
130°	100.4	109.9	125.5	143.0	122.3
135°	109.3	109.6	128.3	127.7	138.7
140°	116.2	125.9	132.1	143.1	130.9
145°	119.7	127.2	137.2	134.3	128.4
150°	125.9	124.6	136.6	127.3	124.1
155°	137.0	129.0	140.2	129.5	134.6
160°	137.9	130.2	141.1	143.4	138.8
165°	130.8	140.7	141.8	137.1	139.6
170°	131.6	157.1	128.5	145.7	135.0
175°	134.0	138.9	135.3	137.4	148.7
180°	145.8	145.8	145.8	145.8	145.8

(END OF REPORT)