

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: 89096

Luminaire Tested: **E2-SB-3T5-DL-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89096
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-DL-4
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

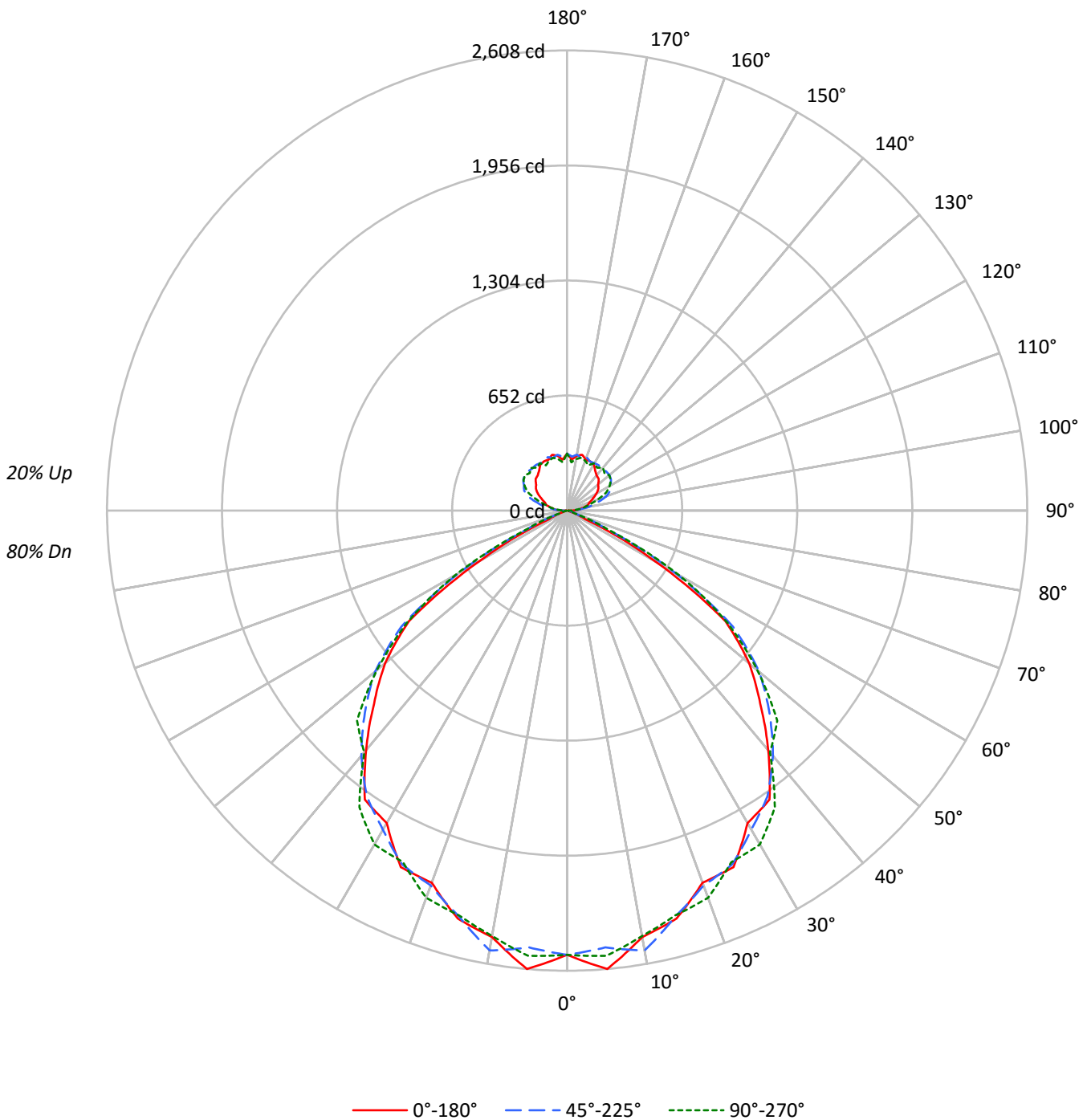
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 7126.7 lumens
Efficiency: 52.8%
Efficacy: 40.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 177
Input Voltage (V): NR
Input Current (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	60	60	60	60	58	58	58	58	53	53	53	48	48	48	44	44	44	42
1	56	54	52	51	54	52	50	49	48	47	46	44	43	42	41	40	39	38
2	52	48	45	43	50	46	44	41	43	41	39	40	38	37	37	35	34	33
3	48	43	39	36	46	41	38	35	38	36	34	36	34	32	33	31	30	28
4	44	38	34	31	42	37	33	31	34	31	29	32	30	28	30	28	26	25
5	40	35	30	27	39	33	29	27	31	28	25	29	26	24	27	25	23	22
6	37	31	27	24	36	30	26	23	28	25	22	26	24	21	25	22	20	19
7	35	28	24	21	33	27	23	21	26	22	20	24	21	19	23	20	18	17
8	32	26	22	19	31	25	21	19	23	20	18	22	19	17	21	18	16	15
9	30	24	20	17	29	23	19	17	22	18	16	20	17	15	19	17	15	14
10	28	22	18	15	27	21	18	15	20	17	15	19	16	14	18	15	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11739	11739	11739
5°	12120	11177	11287
10°	11452	11075	10521
15°	11305	10206	9926
20°	10810	9592	9578
25°	11045	9353	8916
30°	10509	8858	8825
35°	10759	8489	8323
40°	10087	7941	7337
45°	9428	7294	7044
50°	8892	6629	6057
55°	7966	5598	4939
60°	4765	3639	3436
65°	1054	1369	1314
70°	281	351	241
75°	176	207	93
80°	132	125	38
85°	149	100	32



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	239.3	3.4	1.8
10°-20°	674.9	9.5	5.0
20°-30°	1018.6	14.3	7.5
30°-40°	1239.2	17.4	9.2
40°-50°	1245.3	17.5	9.2
50°-60°	969.0	13.6	7.2
60°-70°	289.5	4.1	2.1
70°-80°	29.1	0.4	0.2
80°-90°	13.5	0.2	0.1
90°-100°	74.3	1.0	0.6
100°-110°	169.6	2.4	1.3
110°-120°	234.5	3.3	1.7
120°-130°	251.8	3.5	1.9
130°-140°	228.4	3.2	1.7
140°-150°	189.3	2.7	1.4
150°-160°	141.8	2.0	1.1
160°-170°	88.9	1.2	0.7
170°-180°	29.7	0.4	0.2
0°-30°	1932.8	27.1	14.3
0°-40°	3171.9	44.5	23.5
0°-60°	5386.3	75.6	39.9
0°-90°	5718.4	80.2	42.4
90°-120°	478.4	6.7	3.5
90°-150°	1147.9	16.1	8.5
90°-180°	1408.0	19.8	10.4
0°-180°	7126.7	100.0	52.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2518	2518	2518	2518	2518	
5°	2608	2513	2486	2507	2533	242
15°	2394	2436	2378	2340	2374	670
25°	2230	2176	2213	2212	2199	1010
35°	2000	1951	1978	2032	2052	1225
45°	1548	1621	1622	1623	1684	1200
55°	1096	1140	1147	1111	1108	919
65°	112	150	248	299	266	204
75°	13	23	31	26	16	15
85°	5	7	12	10	5	6
90°	23	20	18	23	16	17
95°	72	78	69	66	51	55
105°	122	168	178	172	130	123
115°	160	220	269	268	245	160
125°	216	253	304	323	301	191
135°	253	272	313	317	300	192
145°	276	285	313	315	297	175
155°	308	314	306	306	283	142
165°	328	339	308	307	310	90
175°	290	301	307	335	274	29
180°	323	323	323	323	323	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2517.9	2517.9	2517.9	2517.9	2517.9
5°	2608.3	2513.1	2485.5	2506.6	2533.3
10°	2454.1	2512.5	2531.6	2458.4	2448.1
15°	2393.9	2435.5	2378.5	2340.2	2374.1
20°	2244.2	2326.6	2261.1	2309.2	2335.3
25°	2229.6	2176.4	2213.2	2211.9	2198.9
30°	2045.0	2075.9	2088.0	2180.4	2184.6
35°	1999.6	1950.6	1978.1	2031.8	2052.5
40°	1772.2	1798.9	1814.7	1813.0	1788.4
45°	1547.9	1620.7	1621.7	1622.9	1684.0
50°	1346.5	1406.0	1421.4	1422.9	1408.5
55°	1095.5	1139.9	1146.9	1111.4	1107.8
60°	584.1	671.6	705.2	705.5	736.3
65°	112.4	150.1	248.1	299.2	266.4
70°	25.3	41.0	58.7	67.4	45.6
75°	12.8	22.9	31.4	26.2	16.3
80°	7.2	11.9	17.0	14.0	6.0
85°	5.4	7.1	11.8	10.2	4.6
90°	23.1	19.7	18.4	22.6	16.2
95°	71.5	77.8	68.8	65.8	50.8
100°	87.1	129.9	127.7	116.2	92.1
105°	122.4	168.2	177.8	171.5	130.0
110°	134.7	206.9	235.8	215.7	185.8
115°	160.2	220.3	269.3	268.5	244.7
120°	191.7	231.4	282.3	297.1	277.7
125°	216.0	253.0	303.8	323.2	301.2
130°	229.3	264.6	312.8	324.0	311.5
135°	253.0	272.2	313.2	317.1	299.7
140°	259.5	283.0	309.6	309.0	315.3
145°	276.3	285.3	313.3	315.4	296.6
150°	302.5	308.1	309.6	310.7	309.1
155°	308.3	314.4	306.5	305.9	283.3
160°	306.6	306.4	321.9	290.8	300.0
165°	327.6	338.8	308.5	307.2	309.6
170°	314.9	304.1	321.2	320.5	296.2
175°	289.5	300.9	306.7	334.6	274.1
180°	323.0	323.0	323.0	323.0	323.0

(END OF REPORT)