

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: 89093

Luminaire Tested: **E2-SB-3T5-DL-7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89093
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-DL-7
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

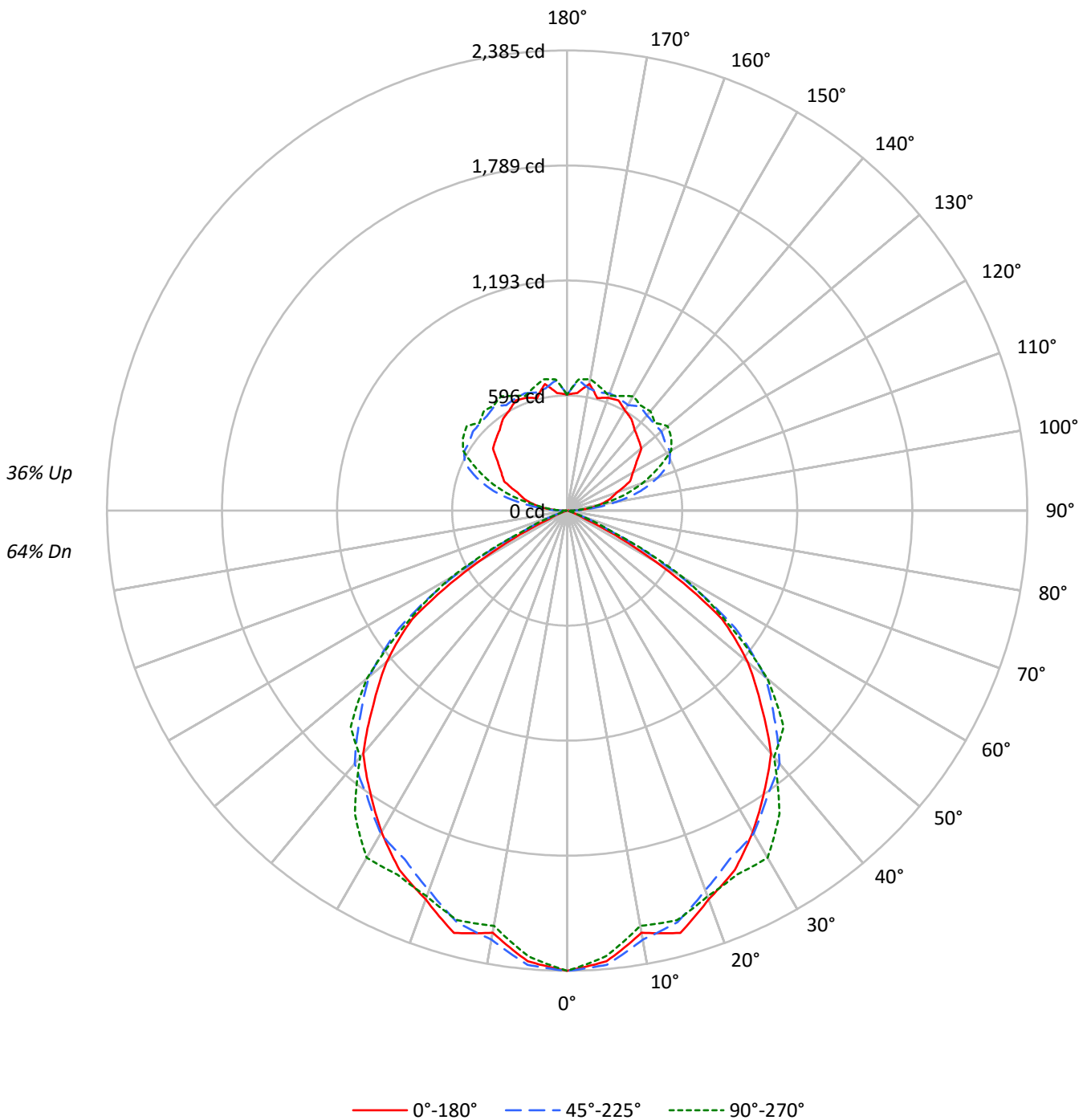
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 8236.3 lumens
Efficiency: 61.0%
Efficacy: 46.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 177
Input Voltage (V): NR
Input Current (A_{in}): 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	67	67	67	67	63	63	63	63	56	56	56	49	49	49	42	42	42	39
1	62	60	58	56	59	57	55	53	50	49	48	44	43	42	39	38	37	35
2	57	53	50	47	54	50	47	45	45	43	41	40	38	37	35	34	33	30
3	53	47	43	40	50	45	41	38	40	37	35	36	33	32	31	30	28	26
4	49	42	38	34	46	40	36	33	36	33	30	32	29	27	28	26	25	23
5	45	38	33	30	42	36	32	28	32	29	26	29	26	24	26	24	22	20
6	41	34	29	26	39	32	28	25	29	26	23	26	23	21	23	21	19	18
7	38	31	26	23	36	29	25	22	27	23	20	24	21	19	21	19	17	16
8	36	28	23	20	33	27	23	20	24	21	18	22	19	17	20	17	16	14
9	33	26	21	18	31	25	20	18	22	19	16	20	17	15	18	16	14	13
10	31	24	19	16	29	23	19	16	21	17	15	19	16	14	17	14	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11121	11121	11121
5°	10894	10625	10330
10°	10368	9878	9391
15°	10702	9475	9190
20°	10327	8883	8726
25°	10182	8424	8440
30°	9884	8201	8394
35°	9579	7756	7780
40°	9359	7495	6843
45°	8641	6827	6634
50°	8065	6251	5824
55°	7138	5195	4514
60°	4313	3444	3253
65°	976	1310	1241
70°	271	332	228
75°	151	190	89
80°	115	123	39
85°	110	105	35



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	219.2	2.7	1.6
10°-20°	620.9	7.5	4.6
20°-30°	940.6	11.4	7.0
30°-40°	1149.0	14.0	8.5
40°-50°	1159.7	14.1	8.6
50°-60°	899.8	10.9	6.7
60°-70°	272.9	3.3	2.0
70°-80°	27.2	0.3	0.2
80°-90°	15.3	0.2	0.1
90°-100°	136.4	1.7	1.0
100°-110°	353.8	4.3	2.6
110°-120°	499.4	6.1	3.7
120°-130°	525.6	6.4	3.9
130°-140°	476.7	5.8	3.5
140°-150°	398.8	4.8	3.0
150°-160°	296.6	3.6	2.2
160°-170°	181.4	2.2	1.3
170°-180°	63.1	0.8	0.5
0°-30°	1780.7	21.6	13.2
0°-40°	2929.7	35.6	21.7
0°-60°	4989.2	60.6	37.0
0°-90°	5304.5	64.4	39.3
90°-120°	989.5	12.0	7.3
90°-150°	2390.6	29.0	17.7
90°-180°	2932.0	35.6	21.7
0°-180°	8236.3	100.0	61.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2385	2385	2385	2385	2385	
5°	2344	2298	2363	2314	2318	220
15°	2266	2203	2208	2230	2198	630
25°	2055	2038	1993	2006	2082	944
35°	1780	1811	1807	1900	1919	1117
45°	1419	1466	1518	1536	1586	1101
55°	982	1048	1064	1037	1012	828
65°	104	139	237	288	252	186
75°	11	21	29	24	16	14
85°	4	6	12	12	5	5
90°	18	21	24	41	20	20
95°	104	137	124	132	80	93
105°	228	350	396	343	300	237
115°	360	475	586	557	520	343
125°	438	536	619	660	658	396
135°	522	571	638	661	643	404
145°	580	600	659	666	664	361
155°	630	630	640	655	655	287
165°	603	632	633	641	662	176
175°	612	664	677	732	682	60
180°	601	601	601	601	601	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2385.4	2385.4	2385.4	2385.4	2385.4
5°	2344.5	2297.9	2362.9	2313.6	2318.5
10°	2221.9	2250.4	2257.9	2193.2	2185.3
15°	2266.3	2203.3	2208.1	2229.5	2198.1
20°	2144.0	2125.6	2093.9	2111.1	2127.7
25°	2055.4	2038.2	1993.3	2006.3	2081.5
30°	1923.5	1933.4	1933.0	2021.4	2077.9
35°	1780.2	1811.3	1807.2	1899.7	1918.6
40°	1644.3	1641.8	1712.8	1704.4	1668.1
45°	1418.7	1465.7	1517.8	1536.0	1586.1
50°	1221.3	1288.3	1340.2	1346.7	1354.4
55°	981.7	1048.5	1064.3	1037.4	1012.5
60°	528.6	620.7	667.4	670.9	697.0
65°	104.1	138.7	237.3	288.3	251.6
70°	24.4	36.2	55.5	65.4	43.2
75°	11.0	20.9	28.9	24.5	15.5
80°	6.3	10.9	16.7	13.0	6.2
85°	4.0	6.5	12.4	11.8	4.9
90°	18.0	21.3	24.5	41.3	20.4
95°	103.5	137.2	123.5	132.4	79.9
100°	167.9	263.8	260.2	234.9	169.1
105°	228.3	350.1	395.9	343.0	299.6
110°	272.2	428.1	499.6	454.9	416.1
115°	360.0	475.4	585.8	557.2	520.3
120°	393.4	490.6	614.9	601.3	623.3
125°	437.9	535.5	618.7	659.7	658.4
130°	501.8	541.4	637.5	671.1	680.3
135°	522.1	571.1	637.5	661.2	642.8
140°	544.5	584.6	643.5	670.4	671.6
145°	579.6	600.0	658.6	665.5	664.5
150°	599.1	633.1	631.1	656.0	684.0
155°	629.6	630.4	639.8	655.3	655.1
160°	622.2	653.8	646.5	628.7	632.4
165°	602.9	632.0	632.6	640.6	661.9
170°	666.0	640.9	643.3	657.4	691.4
175°	612.1	664.1	676.8	732.2	682.1
180°	600.8	600.8	600.8	600.8	600.8

(END OF REPORT)