

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: 89191

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89191
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-3T5-DL-4
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 38 CELL HI PERFORMANCE LOUVER
BLADE
WITH DOWNLIGHT ISOLATORS
Light Source: 54 WATT T5 LAMP
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

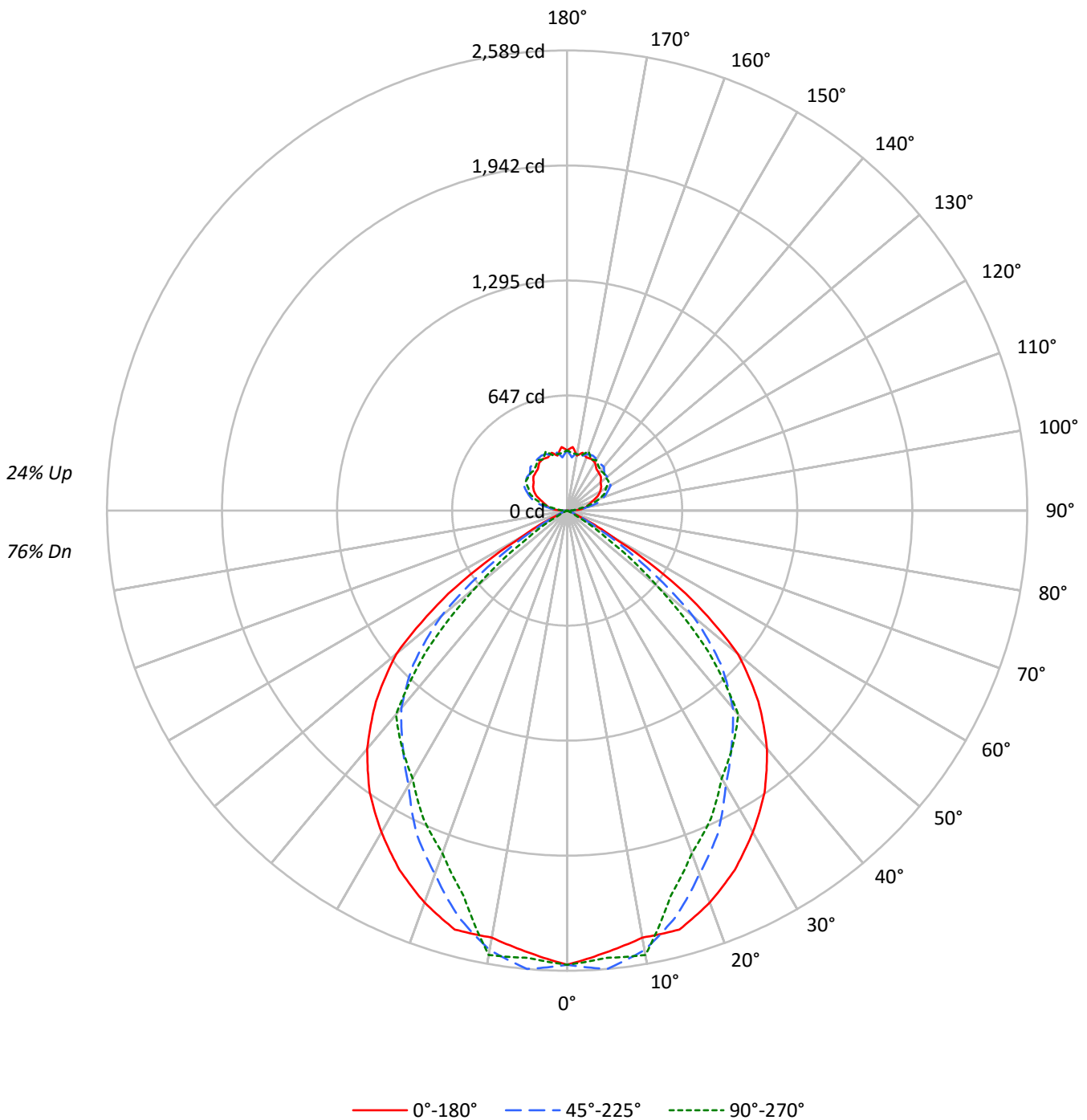
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 5868.6 lumens
Efficiency: 43.5%
Efficacy: 33.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.04 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

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	49	49	49	49	47	47	47	47	42	42	42	38	38	38	35	35	35	33
1	46	44	43	42	44	42	41	40	39	38	37	35	35	34	32	32	31	30
2	43	40	38	36	41	38	36	35	35	34	32	32	31	30	30	29	28	27
3	40	36	33	31	38	35	32	30	32	30	28	29	28	26	27	26	25	24
4	37	32	29	27	35	31	28	26	29	27	25	27	25	23	25	23	22	21
5	34	29	26	24	32	28	25	23	26	24	22	24	22	21	23	21	20	19
6	32	27	24	21	30	26	23	21	24	22	20	22	20	19	21	19	18	17
7	29	24	21	19	28	24	21	19	22	20	18	21	18	17	19	17	16	15
8	28	22	19	17	26	22	19	17	20	18	16	19	17	15	18	16	15	14
9	26	21	18	15	25	20	17	15	19	16	15	18	15	14	17	15	13	13
10	24	19	16	14	23	19	16	14	17	15	13	16	14	13	15	14	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12020	12020	12020
5°	11700	11746	11357
10°	11485	11081	11008
15°	11626	10240	9475
20°	11402	9314	8489
25°	11145	8551	7826
30°	10828	7636	7089
35°	10505	6985	6636
40°	10042	6405	6200
45°	9345	5549	4739
50°	8349	4357	2888
55°	5976	2505	1255
60°	2366	1025	289
65°	564	290	80
70°	250	161	36
75°	162	113	18
80°	127	78	8
85°	160	67	25



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	240.6	4.1	1.8
10°-20°	665.1	11.3	4.9
20°-30°	940.1	16.0	7.0
30°-40°	1066.4	18.2	7.9
40°-50°	963.8	16.4	7.1
50°-60°	479.6	8.2	3.6
60°-70°	72.5	1.2	0.5
70°-80°	13.7	0.2	0.1
80°-90°	10.2	0.2	0.1
90°-100°	69.8	1.2	0.5
100°-110°	166.8	2.8	1.2
110°-120°	230.2	3.9	1.7
120°-130°	244.6	4.2	1.8
130°-140°	227.1	3.9	1.7
140°-150°	197.9	3.4	1.5
150°-160°	153.4	2.6	1.1
160°-170°	95.2	1.6	0.7
170°-180°	31.6	0.5	0.2
0°-30°	1845.8	31.5	13.7
0°-40°	2912.3	49.6	21.6
0°-60°	4355.7	74.2	32.3
0°-90°	4452.0	75.9	33.0
90°-120°	466.8	8.0	3.5
90°-150°	1136.4	19.4	8.4
90°-180°	1417.0	24.1	10.5
0°-180°	5868.6	100.0	43.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2555	2555	2555	2555	2555	
5°	2496	2569	2589	2513	2526	237
15°	2441	2458	2365	2299	2246	684
25°	2231	2193	2006	1870	1913	1027
35°	1936	1798	1614	1627	1622	1208
45°	1522	1373	1223	1163	1123	1167
55°	815	684	509	353	279	705
65°	60	61	52	29	16	105
75°	12	17	17	8	3	14
85°	6	6	8	7	4	6
90°	24	15	17	18	13	18
95°	76	73	63	61	42	64
105°	124	155	187	164	142	133
115°	188	215	250	261	235	183
125°	234	256	284	299	285	208
135°	269	292	295	307	294	205
145°	287	330	322	321	306	182
155°	320	328	341	340	318	147
165°	336	340	317	356	323	92
175°	359	325	300	360	325	32
180°	339	339	339	339	339	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2555.3	2555.3	2555.3	2555.3	2555.3
5°	2495.7	2568.7	2588.9	2512.6	2526.4
10°	2439.6	2447.2	2510.7	2455.3	2538.7
15°	2440.6	2458.1	2365.3	2299.0	2246.0
20°	2346.6	2383.5	2176.3	2117.0	2051.4
25°	2230.7	2192.9	2005.8	1870.0	1913.0
30°	2089.3	1977.3	1784.3	1796.5	1739.4
35°	1935.9	1798.4	1613.5	1626.6	1621.8
40°	1749.6	1596.5	1451.2	1466.2	1497.8
45°	1521.7	1373.4	1223.1	1163.4	1122.8
50°	1254.1	1074.3	926.3	756.2	665.6
55°	815.3	684.4	508.8	352.9	279.0
60°	287.7	266.8	196.9	102.1	61.4
65°	59.7	61.4	52.1	28.8	16.0
70°	22.3	25.4	26.7	14.0	6.8
75°	11.7	16.8	17.0	7.5	3.2
80°	6.9	11.0	10.5	4.0	1.2
85°	5.8	6.3	7.8	6.9	3.5
90°	23.9	15.3	16.7	18.4	12.9
95°	76.0	72.6	62.6	61.2	42.2
100°	106.4	122.8	119.1	111.0	78.3
105°	124.0	155.4	187.2	164.3	142.3
110°	148.7	183.3	219.9	228.1	192.8
115°	188.0	214.8	249.8	260.8	235.3
120°	214.7	240.8	282.4	283.0	251.4
125°	233.5	255.8	284.5	298.7	285.3
130°	246.0	265.4	294.8	301.7	286.8
135°	269.0	292.3	294.8	306.9	294.1
140°	276.9	305.7	321.2	304.4	293.5
145°	286.8	330.0	322.1	320.8	306.0
150°	312.4	311.5	333.9	323.6	326.8
155°	320.5	327.5	341.0	340.4	317.6
160°	317.8	333.5	338.7	357.3	353.7
165°	336.1	340.2	316.7	356.2	323.3
170°	313.7	330.1	331.3	335.3	321.8
175°	359.0	324.8	300.2	360.2	324.7
180°	338.9	338.9	338.9	338.9	338.9

(END OF REPORT)