

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: 89109

Luminaire Tested: **E2-SH-2T5-DL-7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89109
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-2T5-DL-7
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

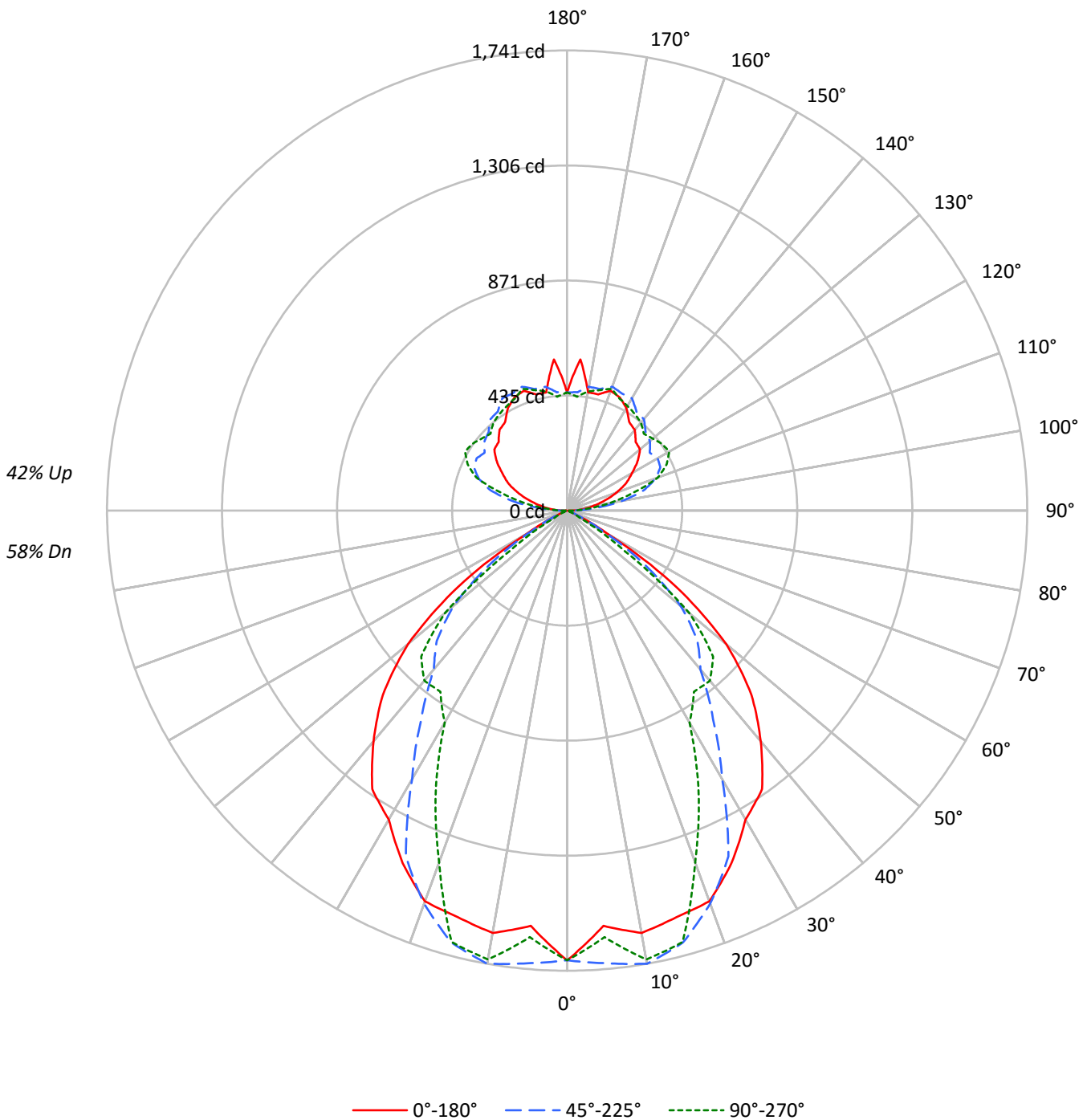
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 4995.8 lumens
Efficiency: 55.5%
Efficacy: 42.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.09
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: General Diffuse

Input Watts (W): 118
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	61	61	61	61	56	56	56	56	49	49	49		42	42	42		35	35	35	32
1	56	54	52	51	52	51	49	48	44	43	42		38	37	37		33	32	32	29
2	52	48	46	43	49	46	43	41	40	38	36		35	33	32		30	29	28	26
3	48	43	40	37	45	41	38	35	36	34	32		32	30	28		27	26	25	23
4	44	39	35	32	42	37	33	31	33	30	28		29	27	25		25	24	22	21
5	41	35	31	28	38	33	30	27	30	27	25		26	24	22		23	21	20	18
6	38	32	28	25	36	30	27	24	27	24	22		24	22	20		21	19	18	17
7	35	29	25	22	33	28	24	21	25	22	20		22	20	18		20	18	16	15
8	33	27	23	20	31	25	22	19	23	20	18		20	18	16		18	16	15	14
9	31	25	21	18	29	23	20	17	21	18	16		19	17	15		17	15	14	13
10	29	23	19	16	27	22	18	16	19	17	15		18	15	14		16	14	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8004	8004	8004
5°	7394	7800	7284
10°	7638	7683	7478
15°	7589	7325	7129
20°	7644	6772	5859
25°	7355	6154	4816
30°	6994	5022	3775
35°	6979	4165	3421
40°	6539	3462	3477
45°	6060	3163	3295
50°	5236	2638	2623
55°	3701	1780	1179
60°	1496	816	288
65°	333	232	68
70°	152	112	30
75°	98	78	13
80°	88	53	6
85°	83	56	17



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	162.2	3.2	1.8
10°-20°	464.6	9.3	5.2
20°-30°	632.0	12.7	7.0
30°-40°	648.7	13.0	7.2
40°-50°	603.4	12.1	6.7
50°-60°	328.9	6.6	3.7
60°-70°	50.3	1.0	0.6
70°-80°	9.1	0.2	0.1
80°-90°	9.8	0.2	0.1
90°-100°	107.1	2.1	1.2
100°-110°	266.6	5.3	3.0
110°-120°	350.3	7.0	3.9
120°-130°	351.8	7.0	3.9
130°-140°	322.2	6.4	3.6
140°-150°	284.8	5.7	3.2
150°-160°	221.9	4.4	2.5
160°-170°	137.1	2.7	1.5
170°-180°	44.9	0.9	0.5
0°-30°	1258.8	25.2	14.0
0°-40°	1907.5	38.2	21.2
0°-60°	2839.8	56.8	31.6
0°-90°	2909.0	58.2	32.3
90°-120°	724.1	14.5	8.0
90°-150°	1682.9	33.7	18.7
90°-180°	2087.0	41.8	23.2
0°-180°	4995.8	100.0	55.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1702	1702	1702	1702	1702	
5°	1577	1687	1719	1759	1620	154
15°	1593	1648	1692	1664	1690	452
25°	1472	1514	1444	1230	1177	676
35°	1286	1232	962	838	836	793
45°	987	846	697	756	781	752
55°	505	392	362	316	262	440
65°	35	37	42	22	14	65
75°	7	10	12	6	2	9
85°	3	4	7	6	2	4
90°	12	17	19	34	18	12
95°	62	104	100	111	69	56
105°	146	225	302	294	257	156
115°	247	304	389	405	416	241
125°	325	369	381	436	439	290
135°	367	417	420	425	411	288
145°	409	458	457	471	446	261
155°	472	467	489	484	468	216
165°	455	497	476	495	472	131
175°	574	462	449	476	432	49
180°	447	447	447	447	447	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1701.5	1701.5	1701.5	1701.5	1701.5
5°	1577.2	1687.0	1719.3	1758.9	1620.3
10°	1622.5	1636.2	1740.8	1785.6	1724.5
15°	1593.1	1647.8	1692.1	1664.2	1689.8
20°	1573.2	1624.3	1582.4	1499.7	1415.8
25°	1472.0	1513.7	1443.6	1229.9	1177.1
30°	1349.5	1440.6	1173.6	1005.0	926.3
35°	1286.1	1232.0	962.1	838.4	836.1
40°	1139.3	1056.9	784.5	816.1	840.1
45°	986.8	845.5	697.2	755.5	780.8
50°	786.5	652.2	560.8	597.0	604.5
55°	504.9	391.6	361.5	316.4	262.0
60°	181.9	144.9	156.7	91.6	61.2
65°	35.3	36.7	41.6	22.3	13.7
70°	13.6	16.3	18.5	10.5	5.6
75°	7.1	10.2	11.7	5.5	2.3
80°	4.8	6.5	7.1	2.8	0.9
85°	3.0	4.5	6.6	5.8	2.4
90°	12.2	16.8	19.3	34.4	17.6
95°	62.5	103.6	100.4	111.3	68.9
100°	99.5	184.2	211.4	199.2	162.5
105°	146.2	225.1	301.5	293.7	257.2
110°	198.4	277.2	356.2	353.8	365.9
115°	246.6	303.8	389.1	404.9	415.6
120°	283.2	330.5	395.1	434.9	445.6
125°	325.1	368.9	381.3	436.2	439.0
130°	359.7	392.3	408.5	423.0	422.7
135°	366.7	417.2	419.8	424.8	410.8
140°	397.9	435.6	451.3	443.7	433.5
145°	408.8	457.5	457.3	471.0	446.3
150°	447.8	477.0	490.0	470.0	456.3
155°	471.7	466.9	488.9	484.1	467.9
160°	481.9	477.7	498.6	506.5	489.8
165°	455.1	496.6	475.5	494.7	471.7
170°	453.9	462.2	475.5	505.5	457.4
175°	574.0	462.4	449.3	475.7	432.4
180°	446.7	446.7	446.7	446.7	446.7

(END OF REPORT)