

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: 89156

Luminaire Tested: **E2-SH-3T5-DXD-2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89156
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-3T5-DXD-2
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 38 CELL HI PERFORMANCE LOUVER
BLADE
WITH LAMP ISOLATORS
Light Source: 54 WATT T5 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

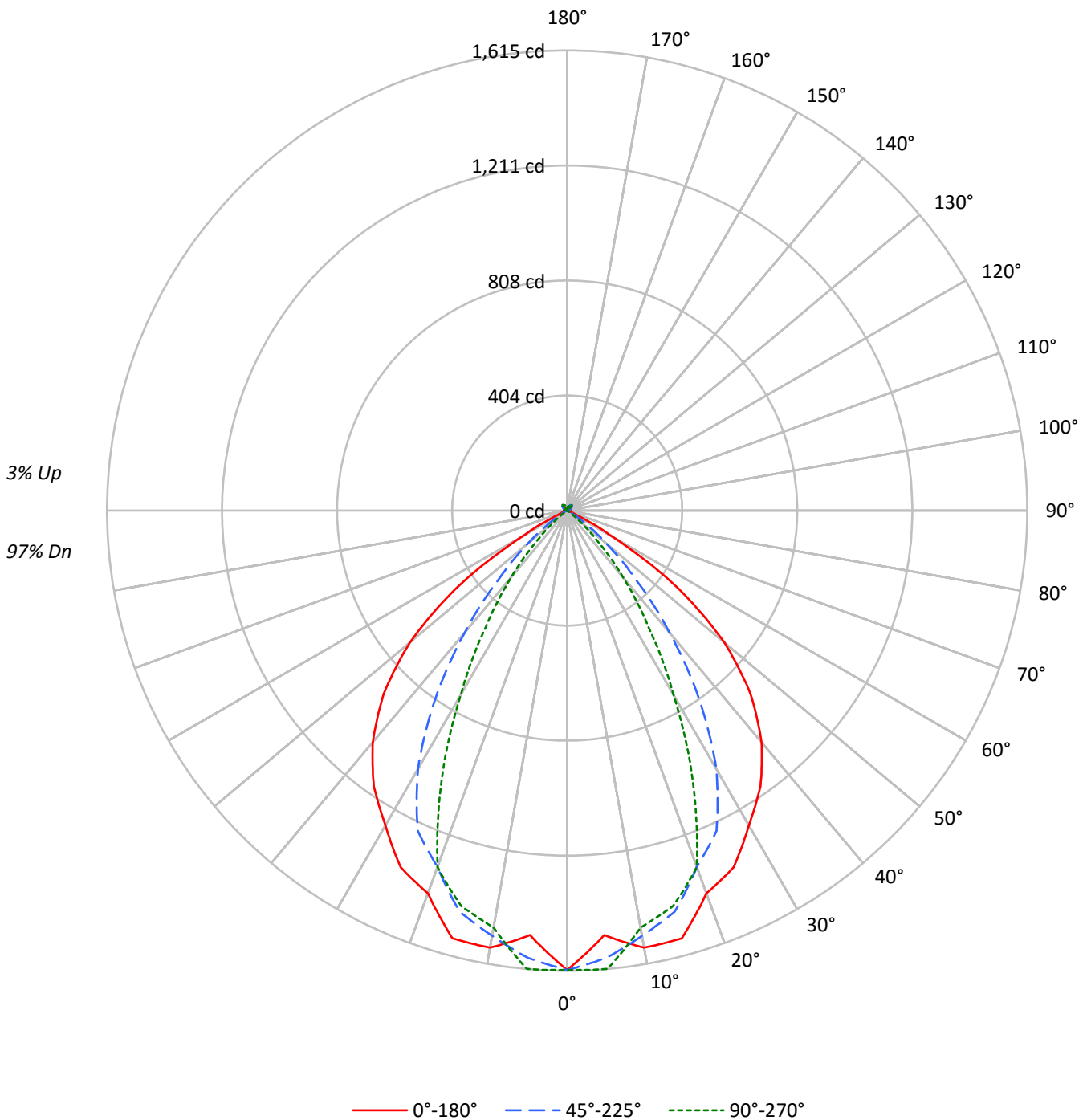
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 2218.1 lumens
Efficiency: 24.6%
Efficacy: 18.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 0.91 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Direct

Input Watts (W): 118
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	29	29	29	29	28	28	28	28	27	27	27	26	26	26	24	24	24	24
1	28	27	26	25	27	26	26	25	25	24	24	24	24	23	23	23	22	22
2	26	24	23	22	25	24	23	22	23	22	21	22	21	21	21	21	20	20
3	24	22	21	20	24	22	21	20	21	20	19	20	20	19	20	19	18	18
4	23	21	19	18	22	20	19	18	20	18	17	19	18	17	18	17	17	16
5	21	19	17	16	21	19	17	16	18	17	16	18	16	15	17	16	15	15
6	20	17	16	14	20	17	16	14	17	15	14	16	15	14	16	15	14	13
7	19	16	14	13	18	16	14	13	15	14	13	15	14	13	15	14	13	12
8	18	15	13	12	17	15	13	12	14	13	12	14	13	12	14	13	12	11
9	17	14	12	11	16	14	12	11	13	12	11	13	12	11	13	12	11	10
10	16	13	11	10	15	13	11	10	13	11	10	12	11	10	12	11	10	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7585	7585	7585
5°	7012	7150	7261
10°	7333	6687	6442
15°	7406	6308	6060
20°	6944	5697	5509
25°	6905	5287	4265
30°	6609	4482	3049
35°	6417	3497	2031
40°	6090	2469	1255
45°	5592	1532	614
50°	4799	838	228
55°	3484	356	26
60°	1502	108	6
65°	314	33	2
70°	119	21	2
75°	67	15	1
80°	42	10	0
85°	19	5	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	149.8	6.8	1.7
10°-20°	409.4	18.5	4.5
20°-30°	555.1	25.0	6.2
30°-40°	517.3	23.3	5.7
40°-50°	345.6	15.6	3.8
50°-60°	143.0	6.4	1.6
60°-70°	20.0	0.9	0.2
70°-80°	2.8	0.1	0.0
80°-90°	0.7	0.0	0.0
90°-100°	3.0	0.1	0.0
100°-110°	7.1	0.3	0.1
110°-120°	10.9	0.5	0.1
120°-130°	13.6	0.6	0.2
130°-140°	14.6	0.7	0.2
140°-150°	12.8	0.6	0.1
150°-160°	8.0	0.4	0.1
160°-170°	3.7	0.2	0.0
170°-180°	0.9	0.0	0.0
0°-30°	1114.3	50.2	12.4
0°-40°	1631.5	73.6	18.1
0°-60°	2120.1	95.6	23.6
0°-90°	2143.6	96.6	23.8
90°-120°	21.0	0.9	0.2
90°-150°	61.9	2.8	0.7
90°-180°	74.0	3.3	0.8
0°-180°	2218.1	100.0	24.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1496	1586	1576	1622	1615	146
15°	1555	1499	1457	1379	1436	431
25°	1382	1322	1240	1112	1042	631
35°	1183	1095	808	578	496	736
45°	910	725	338	184	146	695
55°	475	283	72	17	6	412
65°	33	22	6	1	0	64
75°	5	5	2	0	0	6
85°	1	1	1	0	0	1
90°	1	0	0	0	0	1
95°	8	4	2	1	1	7
105°	11	9	6	4	3	12
115°	12	16	10	8	6	12
125°	14	19	17	12	11	13
135°	14	20	23	18	13	11
145°	13	16	21	25	23	8
155°	10	15	17	20	20	5
165°	8	10	13	15	16	2
175°	8	7	8	10	12	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1612.5	1612.5	1612.5	1612.5	1612.5
5°	1495.7	1585.9	1575.9	1622.1	1615.1
10°	1557.7	1580.1	1515.0	1520.6	1485.7
15°	1554.6	1498.7	1457.2	1379.3	1436.5
20°	1429.1	1392.1	1331.1	1320.6	1331.2
25°	1382.0	1321.5	1240.1	1111.8	1042.5
30°	1275.3	1227.2	1047.4	828.4	748.2
35°	1182.6	1095.0	807.8	578.1	496.3
40°	1061.1	926.2	559.3	351.1	303.3
45°	910.5	724.7	337.7	183.6	145.5
50°	720.9	494.6	178.2	74.3	52.6
55°	475.3	283.0	72.3	17.2	5.8
60°	182.7	102.1	20.7	2.7	1.3
65°	33.2	21.7	5.9	0.9	0.4
70°	10.6	8.5	3.5	0.5	0.3
75°	4.8	4.7	2.2	0.3	0.1
80°	2.3	2.6	1.3	0.1	0.0
85°	0.7	1.0	0.6	0.1	0.0
90°	1.0	0.5	0.3	0.1	0.1
95°	8.2	3.7	2.0	1.2	0.6
100°	11.4	6.3	3.9	2.5	2.0
105°	11.0	8.7	6.2	4.0	3.1
110°	12.2	13.4	8.8	6.3	4.5
115°	11.7	15.6	10.5	7.9	5.7
120°	13.8	20.0	12.5	9.8	8.1
125°	14.1	19.4	16.8	11.6	11.1
130°	14.9	20.1	22.9	12.1	11.2
135°	14.2	19.5	22.8	18.3	13.4
140°	13.7	19.6	20.4	26.0	25.6
145°	12.7	16.2	21.2	24.9	23.4
150°	10.0	17.1	22.4	23.5	22.6
155°	10.1	14.8	17.2	20.4	20.1
160°	9.9	12.8	14.3	19.4	19.3
165°	7.6	10.5	12.7	15.3	15.9
170°	8.4	10.1	11.2	12.0	11.9
175°	7.6	7.1	7.8	10.0	11.9
180°	5.2	5.2	5.2	5.2	5.2

(END OF REPORT)