

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: 89153

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89153
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-3T5-DUD-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

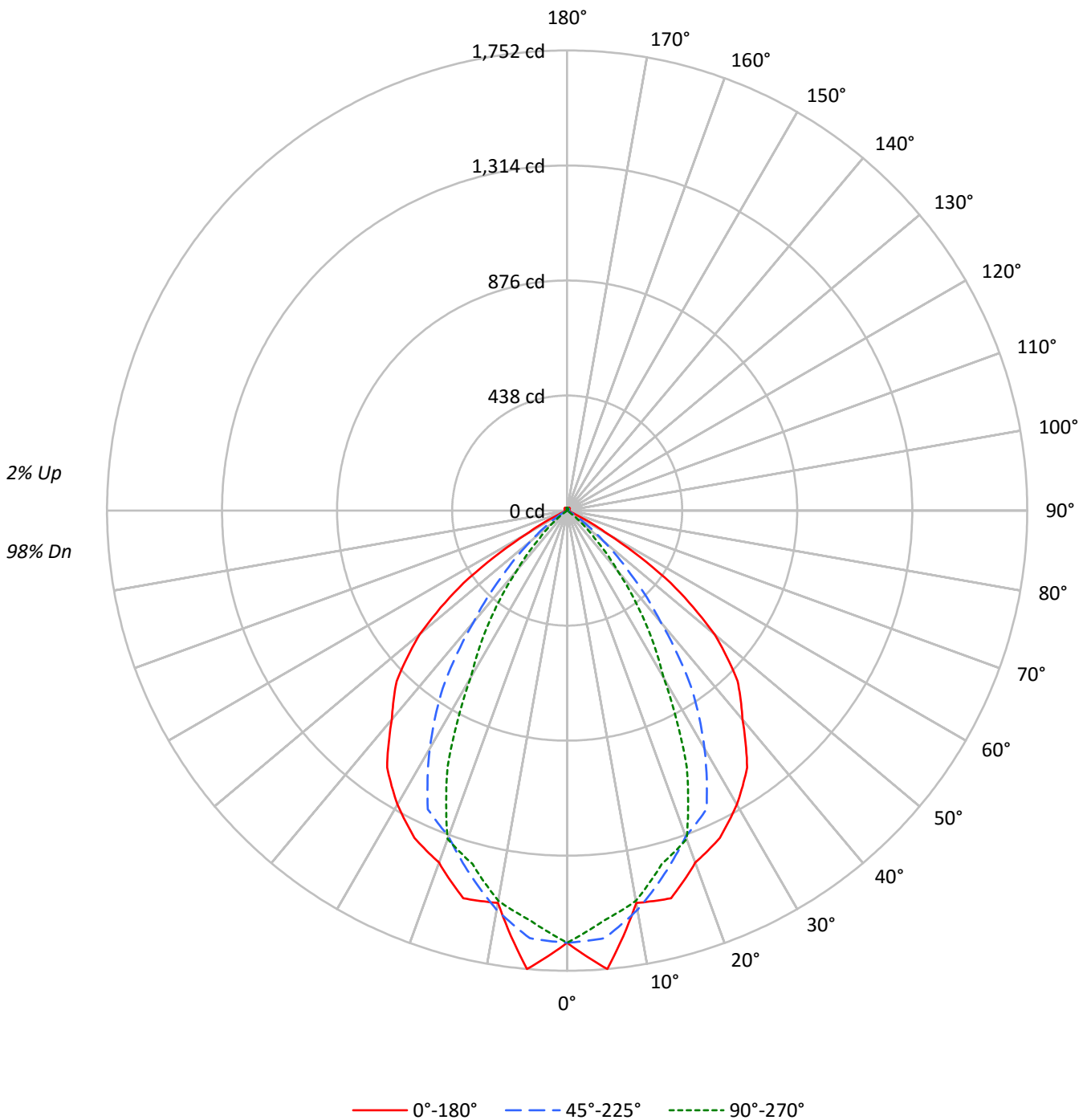
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 2196.9 lumens
Efficiency: 24.4%
Efficacy: 18.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 0.92 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Direct

Input Watts (W): 118
Input Voltage (V): NR
Input Current (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	50	30	10	0	
RCR																						
0	29	29	29	29	28	28	28	28	27	27	27	26	26	26	24	24	24	24	24	24	24	
1	27	27	26	25	27	26	25	25	25	24	24	24	24	23	23	23	22	22	22	22	22	
2	26	24	23	22	25	24	23	22	23	22	21	22	21	21	21	21	20	20	20	20	20	
3	24	22	21	20	24	22	21	20	21	20	19	20	20	19	20	19	18	18	18	18	18	
4	23	20	19	18	22	20	19	18	20	18	17	19	18	17	18	17	17	17	17	17	16	
5	21	19	17	16	21	19	17	16	18	17	16	18	16	15	17	16	15	15	15	15	15	
6	20	17	16	14	19	17	16	14	17	15	14	16	15	14	16	15	14	14	14	14	14	
7	19	16	14	13	18	16	14	13	15	14	13	15	14	13	15	14	13	13	13	13	12	
8	18	15	13	12	17	15	13	12	14	13	12	14	13	12	14	13	12	12	12	12	11	
9	17	14	12	11	16	14	12	11	13	12	11	13	12	11	13	12	11	11	11	11	11	
10	16	13	11	10	15	13	11	10	13	11	10	12	11	10	12	11	10	10	10	10	10	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7741	7741	7741
5°	8214	7415	7053
10°	7141	6813	6542
15°	7280	6200	5877
20°	6932	5648	5507
25°	6871	5350	4408
30°	6698	4479	2995
35°	6483	3578	2112
40°	5959	2451	1231
45°	5638	1556	618
50°	4873	837	233
55°	3528	375	29
60°	1485	116	7
65°	331	34	2
70°	113	22	1
75°	64	16	1
80°	37	10	0
85°	17	4	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	151.4	6.9	1.7
10°-20°	410.4	18.7	4.6
20°-30°	557.8	25.4	6.2
30°-40°	519.9	23.7	5.8
40°-50°	347.6	15.8	3.9
50°-60°	145.7	6.6	1.6
60°-70°	20.1	0.9	0.2
70°-80°	2.9	0.1	0.0
80°-90°	0.7	0.0	0.0
90°-100°	2.1	0.1	0.0
100°-110°	4.7	0.2	0.1
110°-120°	6.6	0.3	0.1
120°-130°	7.4	0.3	0.1
130°-140°	6.8	0.3	0.1
140°-150°	5.6	0.3	0.1
150°-160°	3.9	0.2	0.0
160°-170°	2.5	0.1	0.0
170°-180°	0.8	0.0	0.0
0°-30°	1119.6	51.0	12.4
0°-40°	1639.5	74.6	18.2
0°-60°	2132.8	97.1	23.7
0°-90°	2156.4	98.2	24.0
90°-120°	13.4	0.6	0.1
90°-150°	33.2	1.5	0.4
90°-180°	40.0	1.8	0.4
0°-180°	2196.9	100.0	24.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1752	1590	1634	1521	1569	158
15°	1528	1507	1432	1423	1393	424
25°	1375	1323	1255	1118	1078	631
35°	1195	1100	827	583	516	739
45°	918	733	343	183	146	696
55°	481	290	76	17	6	417
65°	35	21	6	1	0	64
75°	5	5	2	0	0	6
85°	1	1	0	0	0	1
90°	1	0	0	0	0	1
95°	7	3	2	1	0	4
105°	8	6	4	3	1	8
115°	9	8	7	5	3	9
125°	12	10	8	6	4	11
135°	14	10	8	7	6	10
145°	13	10	8	8	6	8
155°	9	10	9	7	7	4
165°	8	11	9	8	8	2
175°	5	6	8	8	9	1
180°	7	7	7	7	7	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.6	1645.6	1645.6	1645.6	1645.6
5°	1752.1	1589.8	1634.4	1520.8	1568.9
10°	1517.0	1587.6	1543.6	1536.3	1508.8
15°	1528.2	1506.6	1432.1	1423.1	1393.0
20°	1426.7	1420.5	1319.7	1336.7	1330.8
25°	1375.2	1323.1	1254.9	1117.8	1077.5
30°	1292.3	1205.0	1046.6	843.6	734.8
35°	1194.8	1099.8	826.6	583.2	516.3
40°	1038.2	928.4	555.4	351.9	297.4
45°	918.0	733.4	342.9	183.2	146.5
50°	732.0	511.0	177.9	72.4	53.7
55°	481.3	289.8	76.1	17.1	6.5
60°	180.6	102.3	22.2	2.9	1.4
65°	35.0	20.6	6.1	1.0	0.4
70°	10.1	9.0	3.6	0.4	0.2
75°	4.6	5.2	2.4	0.3	0.1
80°	2.0	2.8	1.4	0.2	0.0
85°	0.6	1.0	0.5	0.1	0.0
90°	0.6	0.3	0.2	0.1	0.0
95°	6.9	2.9	1.6	0.7	0.3
100°	6.9	4.8	2.8	1.5	0.5
105°	7.8	6.2	4.3	2.8	1.4
110°	8.1	7.9	5.8	3.7	2.6
115°	9.0	8.4	7.2	4.8	2.7
120°	11.4	10.2	8.0	5.6	3.7
125°	12.4	10.0	8.5	6.1	4.5
130°	12.9	10.4	8.9	6.4	5.9
135°	13.6	10.3	8.1	6.7	5.9
140°	12.0	10.3	8.6	6.7	6.4
145°	12.6	10.2	8.5	8.1	6.3
150°	11.5	10.1	7.8	7.9	7.1
155°	8.9	10.5	8.6	7.0	6.8
160°	8.6	10.9	7.4	6.9	6.4
165°	8.4	10.9	9.4	8.2	8.5
170°	6.0	8.1	9.7	9.7	10.1
175°	5.1	6.4	8.1	8.4	9.4
180°	7.3	7.3	7.3	7.3	7.3

(END OF REPORT)