

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: 89157

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89157
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-3T5-DXD-3
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

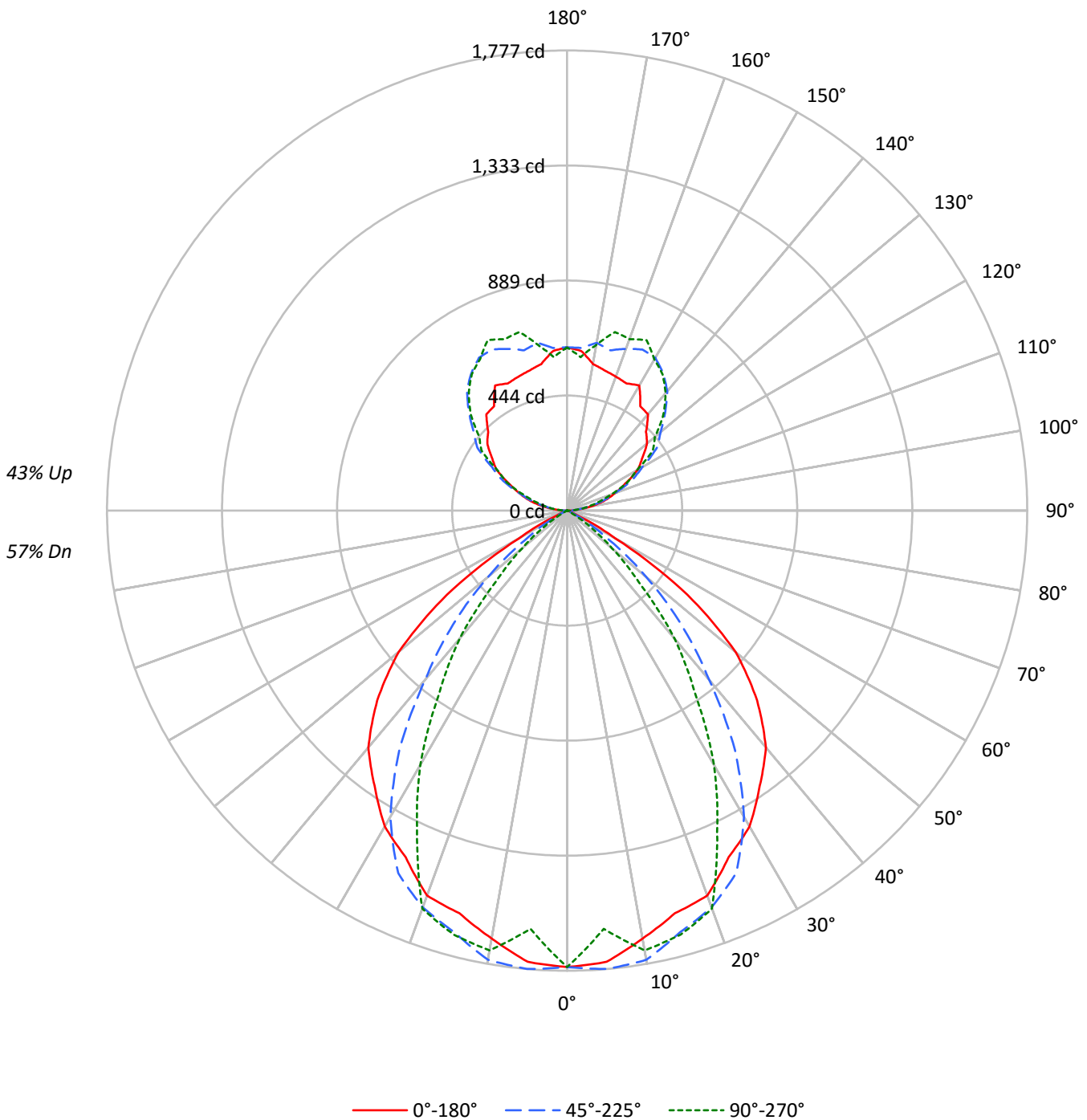
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 5005.5 lumens
Efficiency: 37.1%
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.04 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: General Diffuse

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	40	40	40	40	38	38	38	38	32	32	32	28	28	28	23	23	23	21
1	38	36	35	34	35	34	33	32	29	29	28	25	25	24	22	21	21	19
2	35	32	31	29	32	30	29	27	27	25	24	23	22	22	20	19	19	17
3	32	29	27	25	30	27	25	24	24	23	21	21	20	19	18	18	17	16
4	30	26	24	22	28	25	23	21	22	20	19	19	18	17	17	16	15	14
5	28	24	21	19	26	23	20	18	20	18	17	18	16	15	16	14	14	13
6	26	22	19	17	24	20	18	16	18	16	15	16	15	14	14	13	12	11
7	24	20	17	15	22	19	16	15	17	15	13	15	13	12	13	12	11	10
8	22	18	15	14	21	17	15	13	15	14	12	14	12	11	12	11	10	9
9	21	17	14	12	20	16	14	12	14	12	11	13	11	10	11	10	9	9
10	20	15	13	11	18	15	12	11	13	11	10	12	10	9	11	9	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8293	8293	8293
5°	8201	8062	7288
10°	7899	7775	7478
15°	7668	7297	7150
20°	7687	6977	6769
25°	7376	6584	5609
30°	7301	5846	4625
35°	7039	4892	3520
40°	6855	3761	2673
45°	6370	2830	1649
50°	5653	1870	983
55°	4159	992	467
60°	1776	376	87
65°	394	93	16
70°	144	43	6
75°	78	30	3
80°	52	20	1
85°	19	11	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	166.8	3.3	1.2
10°-20°	479.5	9.6	3.6
20°-30°	689.1	13.8	5.1
30°-40°	701.4	14.0	5.2
40°-50°	531.9	10.6	3.9
50°-60°	246.0	4.9	1.8
60°-70°	34.3	0.7	0.3
70°-80°	4.4	0.1	0.0
80°-90°	2.0	0.0	0.0
90°-100°	43.8	0.9	0.3
100°-110°	146.9	2.9	1.1
110°-120°	266.4	5.3	2.0
120°-130°	359.4	7.2	2.7
130°-140°	401.2	8.0	3.0
140°-150°	382.7	7.6	2.8
150°-160°	305.7	6.1	2.3
160°-170°	184.3	3.7	1.4
170°-180°	59.8	1.2	0.4
0°-30°	1335.4	26.7	9.9
0°-40°	2036.8	40.7	15.1
0°-60°	2814.6	56.2	20.8
0°-90°	2855.4	57.0	21.2
90°-120°	457.1	9.1	3.4
90°-150°	1600.3	32.0	11.9
90°-180°	2150.0	43.0	15.9
0°-180°	5005.5	100.0	37.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1749	1764	1777	1772	1621	165
15°	1610	1711	1686	1742	1695	458
25°	1476	1586	1544	1458	1371	686
35°	1297	1349	1130	940	860	814
45°	1037	963	624	460	391	794
55°	567	421	202	120	104	489
65°	42	31	17	6	3	76
75°	6	7	4	1	0	7
85°	1	1	1	0	0	1
90°	4	3	4	4	4	7
95°	43	40	36	34	35	48
105°	150	158	138	125	122	156
115°	247	304	274	260	256	249
125°	354	437	423	385	404	319
135°	431	548	535	528	526	338
145°	492	595	646	626	642	317
155°	542	618	686	728	726	254
165°	560	612	640	697	714	159
175°	619	583	630	628	594	58
180°	630	630	630	630	630	



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CATALOG NUMBER: E2-SH-3T5-DXD-3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1762.9	1762.9	1762.9	1762.9	1762.9
5°	1749.4	1763.8	1776.9	1772.3	1621.1
10°	1678.0	1695.2	1761.5	1795.0	1724.7
15°	1609.7	1710.8	1685.5	1741.7	1694.9
20°	1582.0	1643.2	1630.2	1708.5	1635.7
25°	1476.3	1585.9	1544.4	1458.3	1371.1
30°	1408.7	1480.9	1366.0	1205.7	1134.8
35°	1297.2	1348.9	1130.0	939.8	860.3
40°	1194.3	1165.4	852.1	711.2	645.7
45°	1037.2	962.6	623.7	460.0	390.7
50°	849.1	699.5	397.5	261.6	226.5
55°	567.4	420.8	201.6	120.1	103.7
60°	216.0	158.7	72.3	32.1	18.5
65°	41.7	30.9	16.8	6.2	3.3
70°	12.9	11.2	7.1	2.1	1.1
75°	5.6	7.0	4.5	1.2	0.5
80°	2.8	3.7	2.7	0.5	0.1
85°	0.7	1.4	1.3	0.3	0.0
90°	4.0	3.4	3.7	3.8	3.8
95°	43.1	40.0	36.4	34.3	35.3
100°	93.9	90.1	78.4	75.0	75.6
105°	149.6	157.5	137.7	125.4	121.7
110°	197.0	216.2	194.4	187.9	179.2
115°	247.4	303.9	273.9	259.6	256.2
120°	314.2	364.7	334.4	330.6	308.3
125°	354.2	436.8	423.3	384.8	404.1
130°	402.6	481.2	470.3	461.4	442.2
135°	430.8	547.5	535.1	528.2	526.2
140°	485.4	574.9	601.1	579.9	591.0
145°	491.6	595.4	646.1	626.3	642.3
150°	557.5	602.1	681.1	703.3	673.6
155°	541.7	618.3	686.2	727.6	726.3
160°	550.1	627.6	664.3	716.5	704.3
165°	560.0	612.0	640.5	697.1	713.7
170°	574.6	631.2	657.4	682.9	649.8
175°	618.9	582.9	630.1	628.0	594.3
180°	629.8	629.8	629.8	629.8	629.8

(END OF REPORT)