

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: 89187

Luminaire Tested: **E2-SH-3T5-DL-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89187
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-3T5-DL-8
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 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

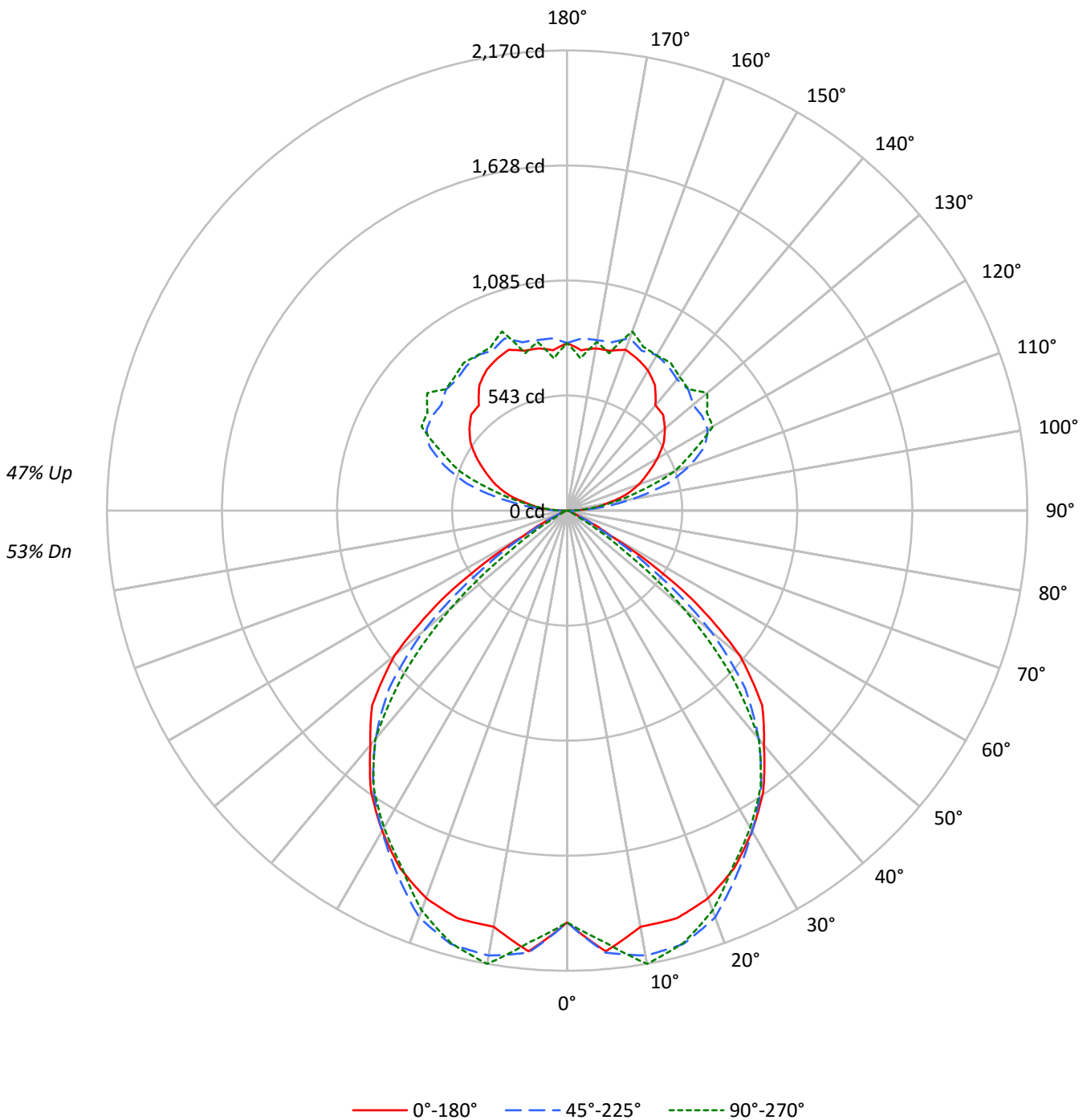
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 7807.2 lumens
Efficiency: 57.8%
Efficacy: 44.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.3 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: General Diffuse

Input Watts (W): 177
Input Voltage (V): NR
Input Current (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	62	62	62	62	58	58	58	58	49	49	49	41	41	41	34	34	34	31
1	58	56	54	52	54	52	50	49	44	43	42	38	37	36	31	31	30	28
2	53	50	46	44	49	46	44	41	40	38	36	34	33	32	29	28	27	24
3	49	44	41	38	46	41	38	35	36	33	31	31	29	28	26	25	24	22
4	45	40	36	32	42	37	34	31	32	30	27	28	26	24	24	22	21	19
5	42	36	31	28	39	34	30	27	29	26	24	25	23	22	22	20	19	17
6	39	32	28	25	36	30	26	24	27	24	21	23	21	19	20	18	17	15
7	36	29	25	22	33	28	24	21	24	21	19	21	19	17	18	17	15	14
8	33	27	23	20	31	25	21	19	22	19	17	20	17	15	17	15	14	13
9	31	25	20	18	29	23	19	17	21	18	15	18	16	14	16	14	13	11
10	29	23	19	16	27	21	18	15	19	16	14	17	14	13	15	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9136	9136	9136
5°	9781	9494	9187
10°	9380	9404	9411
15°	9485	9160	8909
20°	9448	8735	8304
25°	9301	8072	7568
30°	9041	7469	7037
35°	8753	6904	6509
40°	8285	6204	5824
45°	7989	5388	4602
50°	7067	4163	3105
55°	5104	2517	1405
60°	1964	1060	309
65°	542	308	92
70°	214	157	42
75°	147	107	18
80°	110	75	8
85°	138	78	24



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	199.5	2.6	1.5
10°-20°	589.0	7.5	4.4
20°-30°	867.2	11.1	6.4
30°-40°	1000.5	12.8	7.4
40°-50°	909.4	11.6	6.7
50°-60°	465.1	6.0	3.4
60°-70°	71.8	0.9	0.5
70°-80°	12.9	0.2	0.1
80°-90°	13.1	0.2	0.1
90°-100°	160.5	2.1	1.2
100°-110°	434.0	5.6	3.2
110°-120°	624.9	8.0	4.6
120°-130°	662.6	8.5	4.9
130°-140°	596.3	7.6	4.4
140°-150°	508.2	6.5	3.8
150°-160°	384.9	4.9	2.9
160°-170°	232.1	3.0	1.7
170°-180°	75.0	1.0	0.6
0°-30°	1655.7	21.2	12.3
0°-40°	2656.2	34.0	19.7
0°-60°	4030.8	51.6	29.9
0°-90°	4128.6	52.9	30.6
90°-120°	1219.4	15.6	9.0
90°-150°	2986.6	38.3	22.1
90°-180°	3679.0	47.1	27.3
0°-180°	7807.2	100.0	57.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	2086	2114	2093	2053	2044	194
15°	1991	2088	2116	2091	2112	561
25°	1862	1960	1894	1830	1850	856
35°	1613	1664	1595	1564	1591	1004
45°	1301	1259	1188	1143	1090	986
55°	696	647	511	379	312	598
65°	57	58	55	30	18	91
75°	11	15	16	8	3	12
85°	5	6	9	8	3	5
90°	18	21	24	47	20	22
95°	121	163	146	152	96	105
105°	285	438	487	415	354	295
115°	422	605	716	691	653	419
125°	556	683	777	836	804	493
135°	639	728	807	826	808	489
145°	722	769	830	870	850	447
155°	788	802	832	858	851	363
165°	780	818	822	856	768	223
175°	759	767	815	798	720	73
180°	790	790	790	790	790	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1942.2	1942.2	1942.2	1942.2	1942.2
5°	2086.5	2113.5	2092.6	2052.9	2043.6
10°	1992.5	2189.4	2130.7	2205.4	2170.4
15°	1991.0	2087.8	2116.0	2091.1	2111.9
20°	1944.6	2019.2	2041.0	2001.3	2006.7
25°	1861.6	1959.8	1893.5	1829.6	1850.0
30°	1744.5	1798.3	1745.3	1684.2	1726.6
35°	1613.1	1664.1	1594.9	1564.5	1590.7
40°	1443.5	1512.6	1405.7	1401.7	1407.1
45°	1300.9	1259.2	1187.6	1143.1	1090.4
50°	1061.5	1034.0	885.1	759.8	715.7
55°	696.4	647.4	511.3	378.9	312.2
60°	238.9	265.8	203.6	109.1	65.7
65°	57.4	58.2	55.3	29.6	18.4
70°	19.1	24.5	26.0	13.6	7.9
75°	10.6	14.9	16.2	7.5	3.1
80°	6.0	9.4	10.1	4.0	1.3
85°	5.0	5.9	9.2	7.5	3.4
90°	17.8	20.8	24.2	46.8	19.9
95°	121.2	162.7	146.5	151.8	95.5
100°	187.4	308.1	309.8	292.4	209.5
105°	285.1	438.3	486.9	415.2	354.3
110°	359.0	539.6	613.5	546.0	537.3
115°	421.7	605.0	716.1	691.1	652.7
120°	490.2	634.6	765.2	799.4	792.5
125°	555.6	683.4	776.6	836.4	804.5
130°	601.4	685.9	775.0	837.3	861.6
135°	639.4	728.4	807.4	825.5	808.4
140°	647.9	723.2	806.9	857.7	824.0
145°	721.8	769.2	830.2	869.7	850.2
150°	762.8	792.6	845.9	880.6	844.1
155°	787.5	801.9	831.5	857.7	851.3
160°	806.6	798.9	863.6	849.5	898.7
165°	780.3	817.5	822.1	855.6	767.5
170°	776.3	740.2	815.4	819.2	806.9
175°	759.1	767.0	814.9	798.1	720.1
180°	789.8	789.8	789.8	789.8	789.8

(END OF REPORT)