

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: 27193

Luminaire Tested:

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 27193  
Test Lab: LIGHTING SCIENCES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number:  
Description: WITH WHITE INTERIOR, FROSTED SIDE LENSES AND LINEAR PRISMATIC CENTER LENS  
Light Source: ONE GE 54 WATT T5 LAMP  
  
F54W/835. LUMEN RATING = 2950 LMS.  
  
Ballast/Driver: -

**Summary**

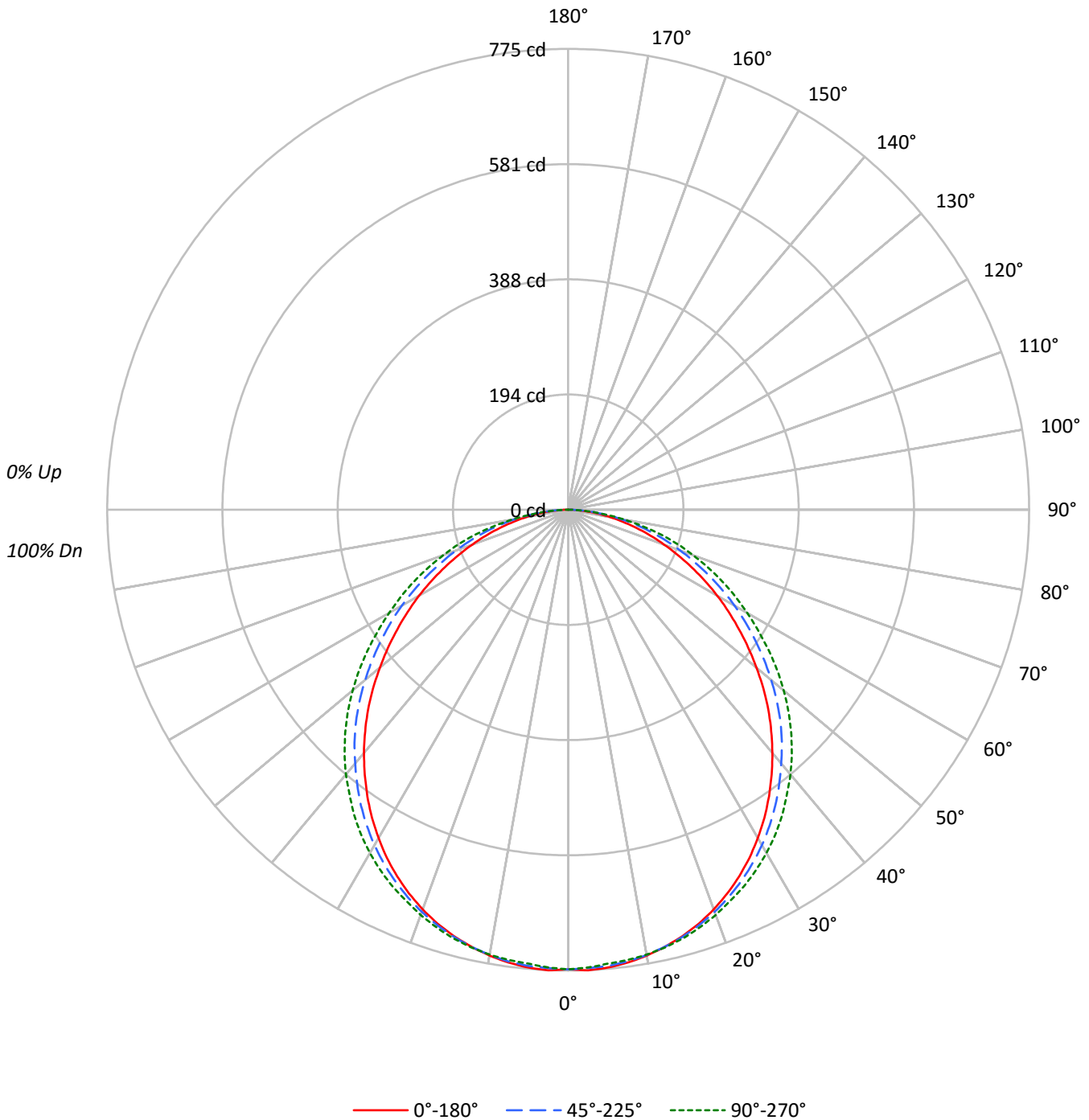
Lumens per Lamp: 2950 (1 lamp)  
Luminaire Lumens: 2158.0 lumens  
Efficiency: 73.2%  
Efficacy: 30.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.36  
Luminous Opening: Rectangular (W 0.88' x L: 3.91' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 70.4  
Input Voltage (V): NR  
Input 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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CATALOG NUMBER:

### 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	87	87	87	87	85	85	85	85	81	81	81	78	78	78	75	75	75	73
1	80	76	73	70	78	74	72	69	71	69	67	68	67	65	66	64	63	61
2	72	66	61	57	70	65	60	56	62	58	55	60	57	54	58	55	53	51
3	66	58	52	48	64	57	52	47	55	50	46	53	49	45	51	48	45	43
4	60	52	45	40	59	51	45	40	49	44	39	47	43	39	46	42	38	37
5	56	46	40	35	54	45	39	35	44	38	34	42	38	34	41	37	33	32
6	51	42	35	30	50	41	35	30	40	34	30	38	33	30	37	33	29	28
7	48	38	31	27	46	37	31	27	36	30	26	35	30	26	34	29	26	25
8	44	34	28	24	43	34	28	24	33	28	24	32	27	24	31	27	23	22
9	41	32	26	22	40	31	25	21	30	25	21	30	25	21	29	24	21	20
10	39	29	23	20	38	29	23	19	28	23	19	27	23	19	27	22	19	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2418	2418	2418
5°	2427	2418	2406
10°	2419	2415	2414
15°	2404	2409	2417
20°	2381	2396	2414
25°	2348	2378	2413
30°	2304	2354	2409
35°	2247	2319	2395
40°	2181	2275	2374
45°	2105	2233	2345
50°	2011	2169	2302
55°	1912	2096	2243
60°	1810	2022	2174
65°	1692	1926	2120
70°	1570	1831	2041
75°	1440	1738	1956
80°	1279	1614	1719
85°	1084	1339	1328



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	73.2	3.4	2.5
10°-20°	209.9	9.7	7.1
20°-30°	317.6	14.7	10.8
30°-40°	379.8	17.6	12.9
40°-50°	387.8	18.0	13.1
50°-60°	342.1	15.9	11.6
60°-70°	256.6	11.9	8.7
70°-80°	150.1	7.0	5.1
80°-90°	40.9	1.9	1.4
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	600.7	27.8	20.4
0°-40°	980.5	45.4	33.2
0°-60°	1710.4	79.3	58.0
0°-90°	2158.0	100.0	73.2
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	2158.0	100.0	73.2

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	773	770	770	770	766	73
15°	742	740	744	748	746	209
25°	680	681	689	697	699	313
35°	588	593	607	623	627	368
45°	476	481	505	524	530	367
55°	351	359	384	406	411	314
65°	229	238	260	280	286	227
75°	119	126	144	159	162	126
85°	30	32	37	38	37	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	773.0	773.0	773.0	773.0	773.0
2.5°	775.4	771.9	771.5	772.5	770.6
5°	772.9	769.6	770.1	770.4	766.3
7.5°	768.2	765.6	766.3	766.0	763.6
10°	761.4	758.9	760.3	761.5	759.8
12.5°	752.8	750.4	752.6	755.8	753.8
15°	742.4	740.4	743.7	747.6	746.3
17.5°	729.9	728.7	732.5	736.7	736.6
20°	715.3	715.0	719.7	725.2	725.1
22.5°	698.8	699.2	705.2	712.1	711.9
25°	680.3	681.4	689.0	697.3	699.0
27.5°	660.1	661.8	671.0	681.9	683.6
30°	637.7	640.4	651.6	664.0	666.8
32.5°	614.0	617.4	630.0	644.4	648.1
35°	588.5	592.6	607.3	623.3	627.1
37.5°	561.8	566.1	582.7	599.6	603.7
40°	534.1	538.3	557.1	575.7	581.3
42.5°	505.3	509.8	531.9	550.6	556.5
45°	475.8	481.4	504.7	524.1	530.0
47.5°	444.9	451.8	475.6	496.1	502.4
50°	413.3	421.4	445.6	467.1	473.1
52.5°	381.8	390.4	415.1	437.0	442.6
55°	350.6	359.4	384.3	405.7	411.2
57.5°	319.8	328.7	353.8	374.3	378.8
60°	289.3	298.2	323.2	341.8	347.4
62.5°	258.8	267.9	292.1	310.5	317.1
65°	228.6	237.8	260.2	280.2	286.4
67.5°	199.5	208.4	229.4	249.8	254.6
70°	171.7	180.0	200.2	218.9	223.1
72.5°	144.9	152.7	171.9	189.0	193.7
75°	119.1	125.9	143.8	159.4	161.8
77.5°	94.2	100.0	116.9	126.9	127.7
80°	71.0	75.7	89.6	95.2	95.4
82.5°	49.6	53.0	62.5	65.6	65.3
85°	30.2	32.1	37.3	37.8	37.0
87.5°	12.3	12.5	13.6	12.4	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)