

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: 27651

Luminaire Tested:

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 27651  
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, CLEAE CURVED PLASTIC LENS W/ LINEAR LINES AND  
WHITE BAFFLE  
Light Source: TWO SYLVANIA 28 WATT T5 LAMPS  
  
FP28/835/ECO. LUMEN RATING = 2600 LMS.  
  
Ballast/Driver: -

**Summary**

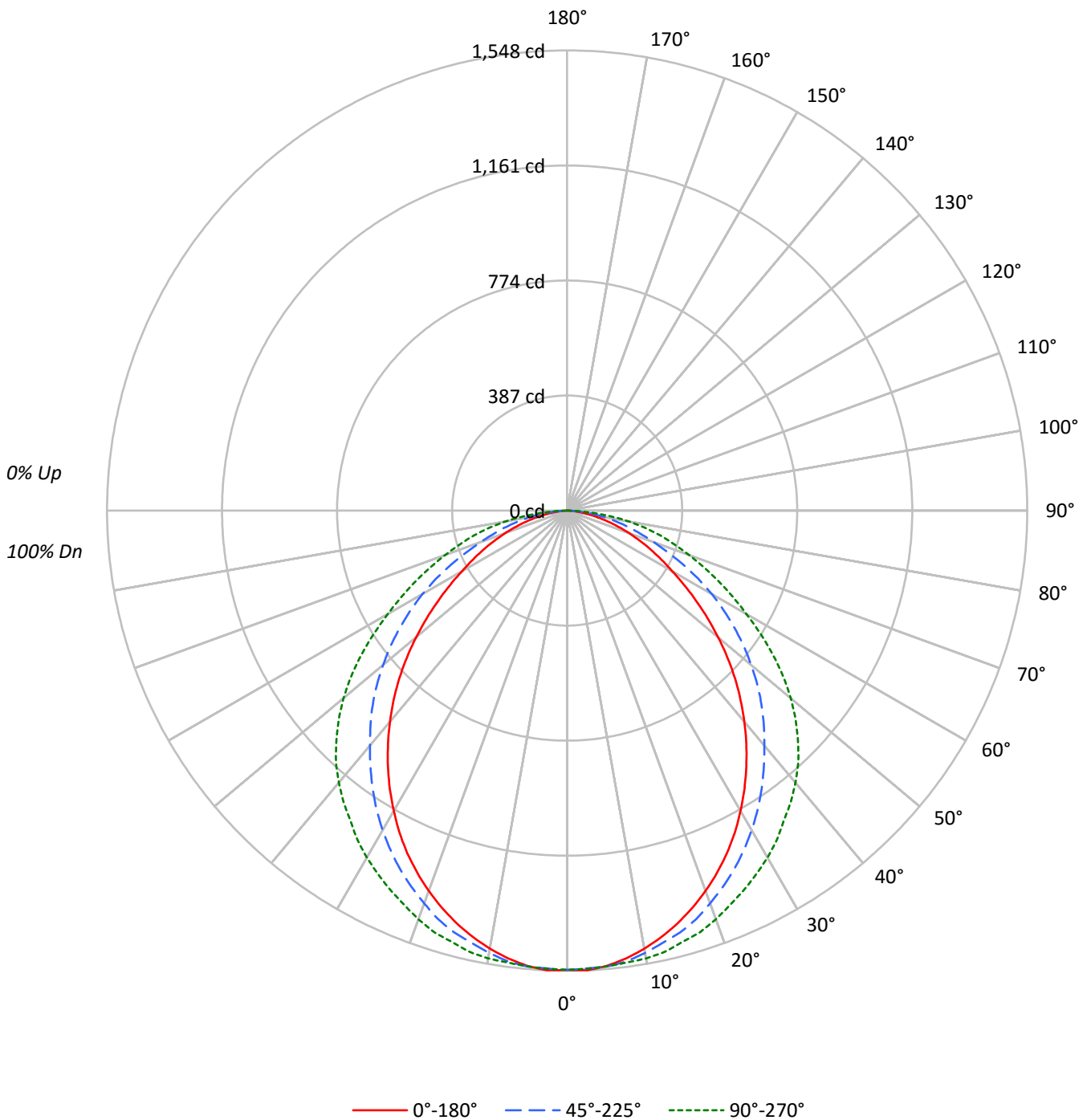
Lumens per Lamp: 2600 (2 lamps)  
Luminaire Lumens: 3951.8 lumens  
Efficiency: 76.0%  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.29 / 1.31  
Luminous Opening: Rectangular (W 0.88' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 61.4  
Input Voltage (V): NR  
Input 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



TEST NUMBER: 27651

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	90	90	90	90	88	88	88	88	84	84	84	81	81	81	78	78	78	76
1	83	80	76	74	81	78	75	72	75	72	70	72	70	68	69	67	66	64
2	76	70	65	60	74	68	64	60	66	62	58	63	60	57	61	58	56	54
3	69	61	55	51	67	60	55	50	58	53	49	56	52	48	54	51	48	46
4	64	55	48	43	62	54	48	43	52	46	42	50	45	42	48	44	41	40
5	59	49	42	37	57	48	42	37	47	41	37	45	40	36	44	39	36	34
6	54	44	38	33	53	43	37	33	42	37	32	41	36	32	40	35	32	30
7	50	40	34	29	49	40	33	29	38	33	29	37	32	29	36	32	28	27
8	47	37	30	26	46	36	30	26	35	30	26	34	29	26	33	29	25	24
9	44	34	28	23	43	33	27	23	32	27	23	32	27	23	31	26	23	22
10	41	31	25	21	40	31	25	21	30	25	21	29	24	21	29	24	21	20

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

	0°	45°	90°
0°	4821	4821	4821
5°	4815	4822	4821
10°	4742	4787	4846
15°	4642	4746	4851
20°	4521	4669	4858
25°	4379	4581	4847
30°	4204	4472	4857
35°	4003	4346	4845
40°	3778	4202	4866
45°	3524	4082	4847
50°	3219	3922	4767
55°	2881	3733	4595
60°	2553	3507	4347
65°	2287	3177	4144
70°	2016	2820	3974
75°	1713	2562	3923
80°	1326	2275	3774
85°	823	1851	3011



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	146.0	3.7	2.8
10°-20°	414.2	10.5	8.0
20°-30°	614.7	15.6	11.8
30°-40°	719.6	18.2	13.8
40°-50°	719.8	18.2	13.8
50°-60°	611.4	15.5	11.8
60°-70°	428.2	10.8	8.2
70°-80°	236.1	6.0	4.5
80°-90°	61.8	1.6	1.2
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°	1175.0	29.7	22.6
0°-40°	1894.6	47.9	36.4
0°-60°	3225.7	81.6	62.0
0°-90°	3951.8	100.0	76.0
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°	3951.8	100.0	76.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1537	1532	1540	1545	1539	145
15°	1437	1444	1469	1496	1502	405
25°	1272	1287	1331	1382	1408	585
35°	1051	1074	1141	1228	1272	656
45°	799	825	925	1040	1098	615
55°	530	571	686	793	845	475
65°	310	343	430	514	561	308
75°	142	162	212	282	325	152
85°	23	31	52	73	84	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1545.1	1545.1	1545.1	1545.1	1545.1
2.5°	1548.0	1541.2	1541.8	1546.0	1542.3
5°	1537.3	1532.3	1539.5	1545.3	1539.2
7.5°	1519.6	1519.1	1529.5	1535.2	1533.6
10°	1496.6	1499.1	1510.9	1525.0	1529.6
12.5°	1468.9	1474.3	1489.1	1517.1	1520.5
15°	1437.0	1444.3	1469.2	1495.6	1501.6
17.5°	1401.0	1410.5	1442.0	1470.9	1487.1
20°	1361.6	1373.9	1406.1	1446.5	1463.1
22.5°	1318.6	1332.7	1370.0	1416.8	1434.5
25°	1272.0	1287.4	1330.6	1381.5	1407.9
27.5°	1221.5	1239.7	1287.2	1345.8	1378.3
30°	1166.7	1188.1	1241.2	1307.9	1347.9
32.5°	1110.0	1133.0	1193.1	1269.2	1313.2
35°	1051.0	1073.9	1140.8	1227.6	1271.8
37.5°	990.2	1012.8	1087.1	1181.4	1235.4
40°	927.5	949.8	1031.6	1138.3	1194.6
42.5°	863.5	887.2	979.6	1091.7	1151.3
45°	798.6	825.3	925.0	1040.2	1098.3
47.5°	731.3	761.4	868.5	983.6	1042.8
50°	663.1	698.0	807.9	922.2	982.1
52.5°	595.5	634.0	748.8	860.1	915.8
55°	529.6	570.7	686.2	792.7	844.7
57.5°	467.2	509.3	625.1	721.1	770.9
60°	409.1	450.5	562.0	649.7	696.6
62.5°	356.9	395.0	497.0	578.2	628.0
65°	309.7	343.0	430.3	513.9	561.2
67.5°	264.3	293.5	366.1	453.6	496.9
70°	221.0	246.8	309.1	395.3	435.6
72.5°	180.1	203.5	257.7	336.3	377.3
75°	142.1	162.0	212.5	281.9	325.4
77.5°	106.2	121.5	167.5	230.6	269.0
80°	73.8	86.9	126.6	179.9	210.0
82.5°	45.8	57.1	88.9	127.0	146.8
85°	23.0	31.3	51.7	73.0	84.1
87.5°	5.5	9.7	14.3	21.8	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)