

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: 26359

Luminaire Tested: **I2-WF-3T5-1C-UNV-04**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 26359  
Test Lab: LIGHTING SCIENCES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I2-WF-3T5-1C-UNV-04  
Description: WITH WHITE INTERIOR AND 30 CELL WHITE PERF BAFFLE

Light Source: THREE PHILIPS 54 WATT T5 LAMPS  
F54T5/835HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

**Summary**

Lumens per Lamp: 4500 (3 lamps)  
Luminaire Lumens: 12845.6 lumens  
Efficiency: 95.2%  
Efficacy: 72.7 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.22 / 1.2  
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')  
CIE Type: Semi-Indirect

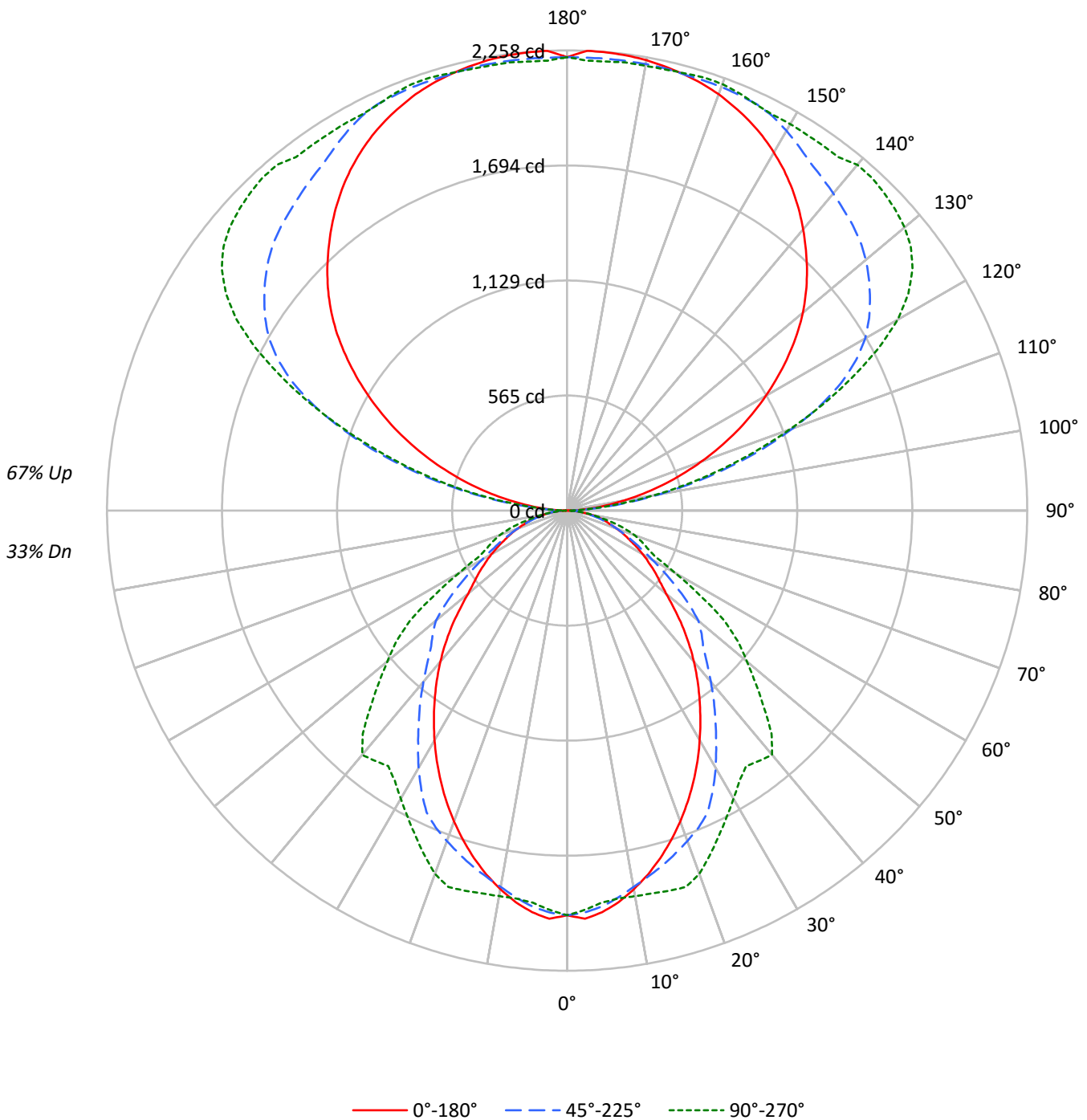
Input Watts (W): 176.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	50	30	10	0													
RCR																																					
0	98	98	98	98	89	89	89	89	71	71	71	54	54	54	39	39	39	32																			
1	90	86	82	79	81	78	75	72	62	60	58	48	47	45	35	34	33	27																			
2	82	75	70	65	74	68	63	59	55	51	49	42	40	38	31	30	28	23																			
3	75	66	60	54	67	60	55	50	48	44	41	38	35	33	28	26	25	20																			
4	69	59	52	46	62	53	47	42	43	39	35	34	31	28	25	23	21	17																			
5	63	52	45	40	57	48	41	37	39	34	30	30	27	25	23	20	19	15																			
6	58	47	40	34	52	43	36	32	35	30	27	27	24	22	20	18	17	14																			
7	54	42	35	30	48	39	32	28	32	27	23	25	22	19	19	17	15	12																			
8	50	38	31	27	45	35	29	25	29	24	21	23	19	17	17	15	13	11																			
9	46	35	28	24	42	32	26	22	26	22	19	21	18	15	16	14	12	10																			
10	43	32	25	21	39	29	24	20	24	20	17	19	16	14	15	13	11	9																			

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

	0°	45°	90°
0°	18786	18786	18786
5°	18786	18526	18347
10°	18123	18016	18454
15°	17292	17671	18922
20°	16340	17372	19099
25°	15309	17044	18379
30°	14214	15923	17832
35°	13085	14660	17677
40°	11952	13542	19326
45°	10688	12620	18269
50°	9321	12367	16952
55°	8658	10816	15532
60°	8125	9141	11579
65°	7509	7968	9658
70°	7137	7159	9715
75°	7000	6580	8594
80°	6565	6037	7148
85°	5645	6177	5916



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	184.4	1.4	1.4
10°-20°	514.2	4.0	3.8
20°-30°	739.2	5.8	5.5
30°-40°	818.2	6.4	6.1
40°-50°	791.8	6.2	5.9
50°-60°	609.1	4.7	4.5
60°-70°	372.3	2.9	2.8
70°-80°	205.4	1.6	1.5
80°-90°	64.2	0.5	0.5
90°-100°	192.1	1.5	1.4
100°-110°	796.2	6.2	5.9
110°-120°	1333.7	10.4	9.9
120°-130°	1567.2	12.2	11.6
130°-140°	1513.9	11.8	11.2
140°-150°	1301.5	10.1	9.6
150°-160°	1002.7	7.8	7.4
160°-170°	627.2	4.9	4.6
170°-180°	212.3	1.7	1.6
0°-30°	1437.8	11.2	10.7
0°-40°	2256.0	17.6	16.7
0°-60°	3656.9	28.5	27.1
0°-90°	4298.7	33.5	31.8
90°-120°	2322.1	18.1	17.2
90°-150°	6704.7	52.2	49.7
90°-180°	8547.0	66.5	63.3
0°-180°	12845.6	100.0	95.2

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1986	1986	1986	1986	1986	
5°	1978	1957	1951	1952	1932	186
15°	1765	1748	1804	1898	1932	495
25°	1466	1482	1633	1714	1761	674
35°	1133	1185	1269	1411	1530	708
45°	799	849	943	1242	1365	615
55°	525	530	656	822	942	470
65°	335	339	356	388	431	336
75°	192	175	180	205	235	200
85°	52	50	57	59	54	57
90°	2	14	24	21	6	9
95°	112	169	157	148	143	126
105°	484	778	818	796	789	513
115°	916	1171	1485	1539	1542	905
125°	1327	1498	1814	2026	2069	1184
135°	1665	1776	1981	2159	2202	1284
145°	1926	1988	2082	2168	2187	1205
155°	2112	2126	2200	2204	2197	974
165°	2216	2200	2216	2219	2222	626
175°	2257	2228	2225	2210	2212	215
180°	2225	2225	2225	2225	2225	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1985.6	1985.6	1985.6	1985.6	1985.6
2.5°	2004.6	1983.2	1974.0	1974.0	1961.4
5°	1978.0	1956.9	1950.7	1951.8	1931.8
7.5°	1937.4	1918.5	1915.4	1926.0	1919.6
10°	1886.4	1867.1	1875.3	1914.0	1920.9
12.5°	1829.3	1808.9	1839.3	1906.5	1923.8
15°	1765.4	1747.6	1804.1	1897.7	1931.8
17.5°	1696.1	1682.6	1764.8	1887.3	1937.0
20°	1622.9	1618.2	1725.4	1862.8	1896.9
22.5°	1546.3	1552.3	1684.2	1793.7	1830.5
25°	1466.5	1482.5	1632.7	1714.2	1760.6
27.5°	1384.7	1410.5	1548.5	1635.1	1695.4
30°	1301.1	1334.7	1457.5	1557.0	1632.3
32.5°	1216.8	1259.7	1360.8	1480.4	1573.3
35°	1132.9	1184.7	1269.3	1411.3	1530.5
37.5°	1050.3	1108.7	1183.1	1359.0	1547.9
40°	967.7	1029.8	1096.5	1352.7	1564.8
42.5°	883.8	941.5	1016.1	1335.0	1483.7
45°	798.8	848.7	943.2	1242.4	1365.4
47.5°	712.2	757.6	894.6	1122.8	1253.7
50°	633.3	670.3	840.2	1015.1	1151.7
52.5°	573.7	593.4	751.2	917.1	1057.1
55°	524.9	530.1	655.7	822.1	941.6
57.5°	475.4	477.0	565.5	715.5	771.1
60°	429.4	428.5	483.1	583.4	611.9
62.5°	382.2	384.3	413.2	471.4	483.9
65°	335.4	338.8	355.9	387.8	431.4
67.5°	298.3	295.3	305.0	343.4	394.6
70°	258.0	252.0	258.8	299.1	351.2
72.5°	220.7	211.9	218.3	252.5	297.6
75°	191.5	174.6	180.0	205.0	235.1
77.5°	155.6	139.8	144.1	160.4	177.9
80°	120.5	108.1	110.8	121.4	131.2
82.5°	86.0	77.7	81.1	87.6	90.5
85°	52.0	49.9	56.9	58.8	54.5
87.5°	21.9	28.4	37.2	36.2	23.4
90°	1.7	14.5	24.4	20.9	5.6
92.5°	40.2	56.6	60.7	54.5	48.6
95°	112.1	168.6	157.3	147.7	142.8
97.5°	191.7	313.8	292.9	272.3	270.4
100°	282.6	475.9	459.8	440.0	434.8
102.5°	380.8	637.5	636.7	611.8	607.8
105°	483.9	778.1	818.1	795.9	788.9
107.5°	590.6	896.6	1003.5	989.9	972.1
110°	699.0	991.5	1178.1	1164.6	1160.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	807.2	1081.1	1343.6	1364.5	1354.4
115°	916.2	1171.1	1484.9	1539.3	1542.2
117.5°	1023.0	1256.3	1599.0	1710.0	1720.6
120°	1126.3	1339.7	1689.4	1849.7	1872.3
122.5°	1227.3	1420.8	1757.1	1947.3	1985.5
125°	1326.6	1498.4	1814.2	2025.8	2068.9
127.5°	1422.2	1571.4	1867.1	2072.9	2126.0
130°	1510.6	1639.0	1913.4	2109.7	2162.2
132.5°	1590.2	1706.9	1952.2	2137.7	2184.3
135°	1664.6	1775.9	1981.1	2158.9	2201.5
137.5°	1734.4	1830.8	2005.1	2171.0	2213.9
140°	1801.9	1884.3	2031.8	2169.3	2214.5
142.5°	1866.2	1936.7	2056.4	2157.0	2186.0
145°	1926.0	1988.0	2082.0	2167.9	2187.3
147.5°	1980.6	2031.3	2117.9	2176.5	2187.6
150°	2029.2	2066.8	2152.3	2182.0	2190.1
152.5°	2073.5	2098.5	2182.2	2184.7	2188.4
155°	2111.6	2125.7	2200.3	2204.0	2197.4
157.5°	2144.2	2148.8	2206.8	2219.8	2214.9
160°	2174.3	2170.0	2212.4	2229.9	2227.2
162.5°	2197.6	2187.0	2214.0	2227.1	2228.2
165°	2215.7	2200.4	2215.6	2219.2	2221.7
167.5°	2231.1	2210.8	2222.8	2212.9	2217.2
170°	2243.9	2219.1	2224.4	2211.2	2215.6
172.5°	2252.1	2225.7	2225.0	2212.5	2217.1
175°	2256.7	2228.1	2225.3	2209.9	2211.5
177.5°	2258.3	2227.6	2224.5	2207.6	2209.6
180°	2224.7	2224.7	2224.7	2224.7	2224.7

(END OF REPORT)