

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: 26352

Luminaire Tested: **I2-WD-2T5-1C-UNV-04**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 26352
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WD-2T5-1C-UNV-04
Description: WITH WHITE INTERIOR AND WHITE PLASTIC LENS OVER WHITE PERF

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

Ballast/Driver: -

Summary

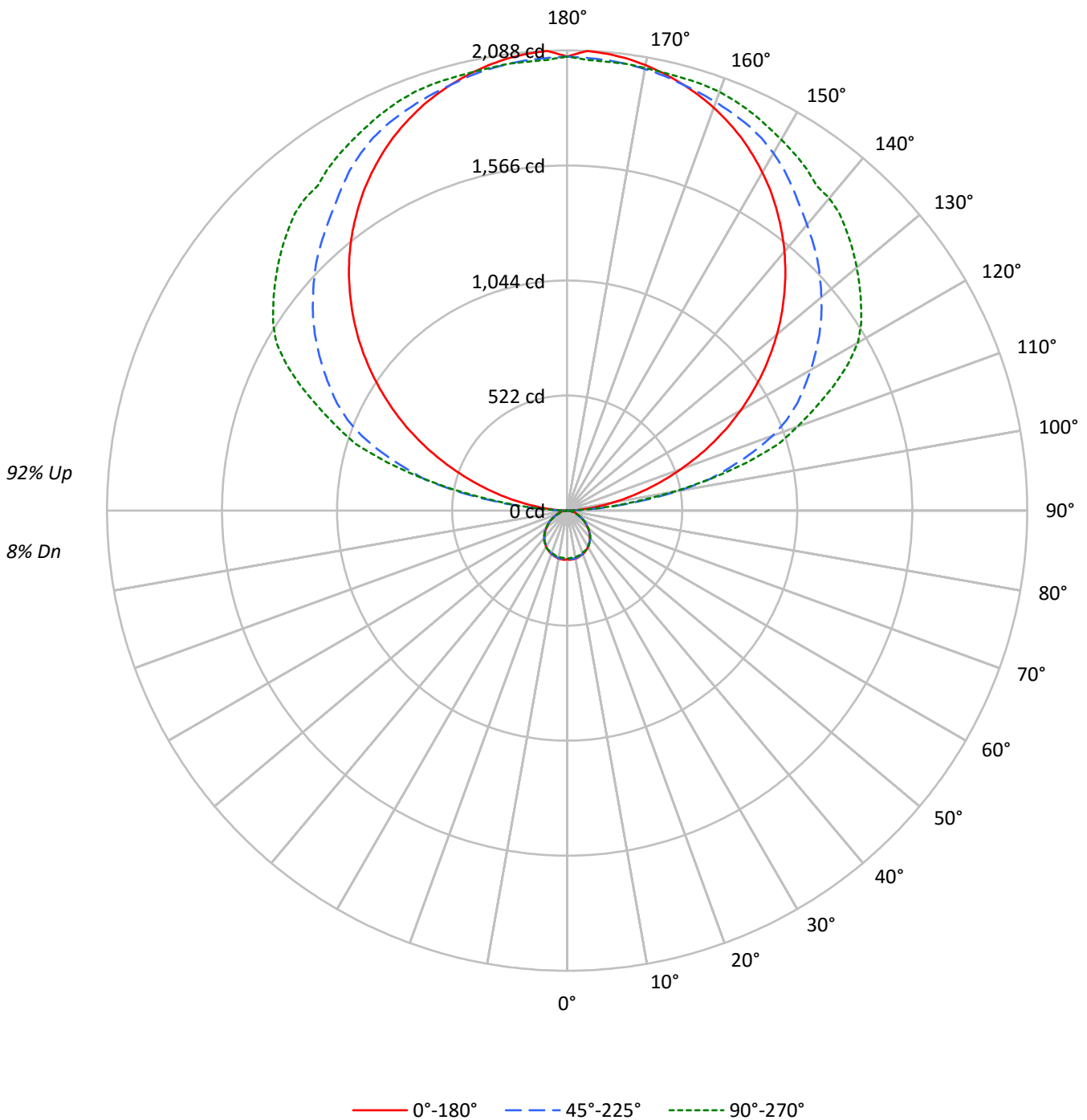
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 7823.7 lumens
Efficiency: 86.9%
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')
CIE Type: Indirect

Input Watts (W): 117.4
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	84	84	84	84	73	73	73	73	52	52	52	33	33	33	15	15	15	7
1	77	73	70	67	66	64	61	59	45	44	42	29	28	27	13	13	13	6
2	70	64	59	55	60	55	51	48	40	37	35	25	24	22	12	11	11	5
3	64	56	50	46	55	49	44	40	35	32	29	22	20	19	10	10	9	4
4	58	49	43	38	50	43	38	34	31	27	25	20	18	16	9	8	8	3
5	53	44	37	32	46	38	33	29	27	24	21	17	15	14	8	7	7	3
6	49	39	33	28	42	34	29	25	25	21	18	16	14	12	7	6	6	3
7	45	35	29	24	39	31	25	21	22	18	16	14	12	10	7	6	5	2
8	41	32	25	21	36	28	22	19	20	16	14	13	11	9	6	5	4	2
9	38	29	23	18	33	25	20	16	18	15	12	12	10	8	6	5	4	2
10	36	26	20	16	31	23	18	14	17	13	11	11	9	7	5	4	4	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2087	2087	2087
5°	2122	2099	2047
10°	2122	2099	2060
15°	2117	2097	2060
20°	2111	2087	2047
25°	2097	2065	2075
30°	2074	2047	2079
35°	2033	2041	2047
40°	1977	2011	2006
45°	1901	1944	1936
50°	1813	1866	1841
55°	1704	1752	1715
60°	1576	1601	1563
65°	1446	1422	1395
70°	1367	1209	1189
75°	1389	1016	987
80°	1291	845	790
85°	912	738	727



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	21.0	0.3	0.2
10°-20°	60.4	0.8	0.7
20°-30°	91.9	1.2	1.0
30°-40°	110.4	1.4	1.2
40°-50°	110.8	1.4	1.2
50°-60°	93.4	1.2	1.0
60°-70°	62.7	0.8	0.7
70°-80°	31.1	0.4	0.3
80°-90°	8.6	0.1	0.1
90°-100°	200.6	2.6	2.2
100°-110°	729.6	9.3	8.1
110°-120°	1074.8	13.7	11.9
120°-130°	1229.1	15.7	13.7
130°-140°	1234.7	15.8	13.7
140°-150°	1113.2	14.2	12.4
150°-160°	888.0	11.3	9.9
160°-170°	568.1	7.3	6.3
170°-180°	195.4	2.5	2.2
0°-30°	173.3	2.2	1.9
0°-40°	283.7	3.6	3.2
0°-60°	487.9	6.2	5.4
0°-90°	590.3	7.5	6.6
90°-120°	2005.0	25.6	22.3
90°-150°	5581.9	71.3	62.0
90°-180°	7233.0	92.4	80.4
0°-180°	7823.7	100.0	86.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	221	221	221	221	221	
5°	223	222	221	221	216	21
15°	216	215	214	214	210	61
25°	201	200	198	200	199	93
35°	176	174	177	180	177	110
45°	142	140	145	147	145	110
55°	103	103	106	105	104	92
65°	65	63	64	63	62	64
75°	38	27	28	28	27	40
85°	8	7	7	7	7	10
90°	0	2	1	2	2	3
95°	75	186	189	174	168	90
105°	374	578	771	844	844	397
115°	731	880	1152	1299	1332	723
125°	1080	1183	1398	1562	1628	965
135°	1394	1465	1607	1740	1794	1075
145°	1660	1689	1785	1857	1894	1039
155°	1868	1869	1934	1970	1989	861
165°	2006	1989	2004	2020	2032	566
175°	2081	2056	2052	2044	2044	198
180°	2060	2060	2060	2060	2060	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	220.6	220.6	220.6	220.6	220.6
2.5°	223.7	222.1	221.3	221.2	216.1
5°	223.4	221.6	221.0	220.8	215.5
7.5°	222.5	220.9	220.2	219.4	215.1
10°	220.9	219.3	218.5	218.0	214.4
12.5°	218.8	217.0	216.4	216.8	213.0
15°	216.1	214.7	214.1	214.5	210.3
17.5°	213.2	211.6	211.6	210.9	207.2
20°	209.7	208.1	207.3	207.0	203.3
22.5°	205.6	204.7	202.8	203.1	200.4
25°	200.9	199.8	197.8	200.1	198.8
27.5°	195.8	194.2	192.5	196.9	195.2
30°	189.8	188.2	187.4	192.7	190.3
32.5°	183.3	181.4	182.1	186.8	184.3
35°	176.0	174.2	176.7	179.8	177.2
37.5°	168.4	166.0	170.1	172.4	170.4
40°	160.1	157.8	162.8	164.6	162.4
42.5°	151.1	148.7	154.5	155.8	153.7
45°	142.1	139.8	145.3	146.7	144.7
47.5°	132.9	130.8	136.3	136.8	135.0
50°	123.2	121.9	126.8	126.8	125.1
52.5°	113.2	112.9	116.6	116.2	114.9
55°	103.3	103.4	106.2	105.2	104.0
57.5°	93.2	93.4	95.4	94.5	93.0
60°	83.3	83.2	84.6	83.4	82.6
62.5°	73.5	72.9	73.8	73.2	72.2
65°	64.6	62.8	63.5	63.0	62.3
67.5°	56.1	53.1	53.2	52.9	52.2
70°	49.4	43.8	43.7	44.2	43.0
72.5°	44.0	35.1	34.9	35.5	34.5
75°	38.0	27.3	27.8	28.3	27.0
77.5°	31.4	20.9	21.2	21.7	20.1
80°	23.7	15.5	15.5	15.4	14.5
82.5°	15.8	11.2	10.6	11.0	10.1
85°	8.4	7.3	6.8	7.2	6.7
87.5°	3.3	4.7	3.5	4.3	3.8
90°	0.0	2.2	1.3	1.7	1.8
92.5°	20.1	61.6	56.0	42.9	39.7
95°	75.4	186.3	189.3	174.5	168.1
97.5°	140.4	308.8	343.9	323.8	314.6
100°	212.4	411.7	511.5	492.9	484.1
102.5°	290.8	503.5	664.3	672.4	667.7
105°	374.3	578.4	770.9	843.8	843.8
107.5°	460.7	651.9	884.5	975.5	1005.1
110°	549.4	728.9	991.4	1074.5	1110.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	640.0	804.5	1079.7	1190.2	1217.9
115°	731.3	880.1	1151.5	1298.8	1331.5
117.5°	821.5	956.4	1213.8	1390.1	1435.3
120°	909.6	1031.8	1276.7	1460.0	1523.1
122.5°	995.0	1106.9	1337.3	1512.8	1582.2
125°	1079.7	1182.6	1397.7	1561.6	1627.9
127.5°	1162.3	1257.1	1454.0	1609.5	1672.9
130°	1243.0	1329.5	1506.0	1655.2	1715.4
132.5°	1319.9	1398.3	1557.0	1700.1	1756.2
135°	1394.2	1464.6	1606.8	1740.0	1793.7
137.5°	1465.8	1521.4	1650.7	1769.6	1828.8
140°	1534.2	1576.8	1693.2	1796.2	1849.7
142.5°	1599.1	1633.3	1736.9	1821.7	1858.7
145°	1660.4	1689.1	1784.6	1856.9	1893.6
147.5°	1718.8	1740.3	1833.4	1888.5	1920.3
150°	1772.1	1786.2	1872.6	1919.8	1943.5
152.5°	1821.6	1829.4	1906.7	1946.1	1966.4
155°	1867.8	1869.0	1933.6	1970.2	1989.1
157.5°	1908.5	1904.4	1953.5	1989.1	2007.5
160°	1945.8	1935.2	1972.1	2005.9	2021.6
162.5°	1978.1	1963.4	1989.3	2014.6	2029.6
165°	2006.2	1989.2	2004.4	2020.1	2031.8
167.5°	2030.9	2011.1	2021.8	2024.5	2034.6
170°	2052.3	2029.8	2034.2	2030.1	2039.0
172.5°	2069.0	2045.6	2044.8	2037.7	2044.5
175°	2080.7	2056.2	2051.7	2043.6	2044.4
177.5°	2087.5	2062.1	2055.6	2044.3	2046.6
180°	2060.1	2060.1	2060.1	2060.1	2060.1

(END OF REPORT)