

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: 26350

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 26350
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WD-1T5-1C-UNV-04
Description: WITH WHITE INTERIOR AND WHITE PLASTIC LENS OVER WHITE PERF

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

Ballast/Driver: -

Summary

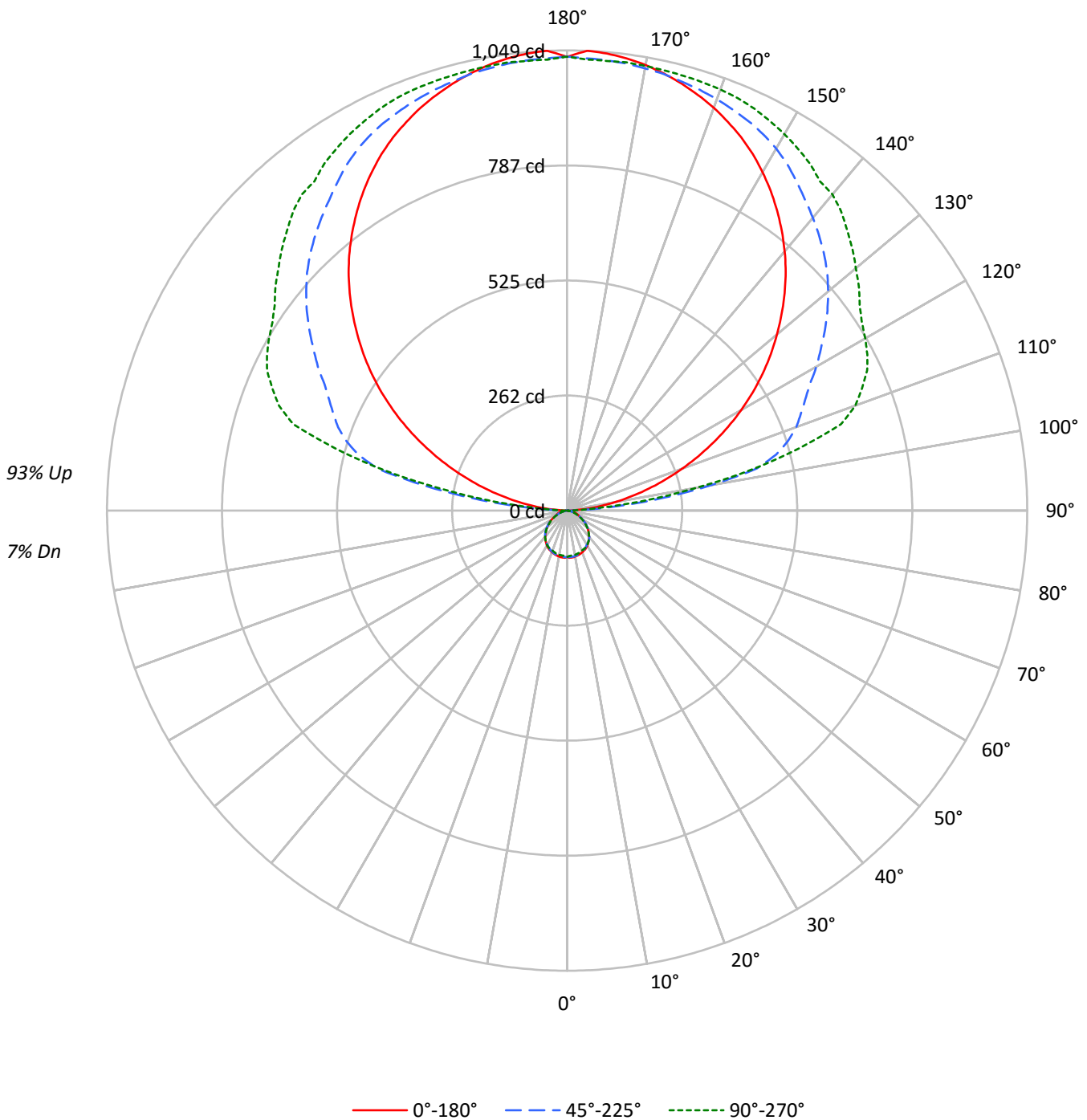
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 4090.4 lumens
Efficiency: 90.9%
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')
CIE Type: Indirect

Input Watts (W): 59
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	88	88	88	88	76	76	76	76	54	54	54	34	34	34	15	15	15	6
1	80	76	73	70	69	66	64	61	47	45	44	29	29	28	13	13	13	5
2	73	67	62	57	63	58	54	50	41	39	36	26	24	23	12	11	11	5
3	66	59	52	48	57	51	46	42	36	33	30	23	21	20	10	10	9	4
4	61	52	45	40	52	45	39	35	32	29	26	20	18	17	9	8	8	3
5	55	46	39	34	48	40	34	30	28	25	22	18	16	14	8	7	7	3
6	51	41	34	29	44	35	30	26	25	22	19	16	14	12	7	7	6	3
7	47	37	30	25	40	32	26	22	23	19	16	15	12	11	7	6	5	2
8	43	33	26	22	37	29	23	19	21	17	14	13	11	9	6	5	5	2
9	40	30	23	19	35	26	21	17	19	15	13	12	10	8	6	5	4	2
10	37	27	21	17	32	24	19	15	17	14	11	11	9	7	5	4	4	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1001	1001	1001
5°	1021	1008	979
10°	1020	1010	984
15°	1020	1011	984
20°	1019	1007	978
25°	1015	996	992
30°	1004	983	995
35°	985	983	983
40°	958	968	960
45°	921	939	925
50°	879	898	870
55°	826	840	808
60°	764	766	732
65°	701	678	647
70°	658	570	545
75°	673	464	442
80°	637	381	338
85°	478	304	250



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.1	0.2	0.2
10°-20°	29.0	0.7	0.6
20°-30°	44.2	1.1	1.0
30°-40°	53.2	1.3	1.2
40°-50°	53.3	1.3	1.2
50°-60°	44.7	1.1	1.0
60°-70°	29.8	0.7	0.7
70°-80°	14.5	0.4	0.3
80°-90°	4.0	0.1	0.1
90°-100°	123.4	3.0	2.7
100°-110°	444.9	10.9	9.9
110°-120°	579.8	14.2	12.9
120°-130°	627.6	15.3	13.9
130°-140°	629.9	15.4	14.0
140°-150°	567.4	13.9	12.6
150°-160°	449.8	11.0	10.0
160°-170°	286.4	7.0	6.4
170°-180°	98.2	2.4	2.2
0°-30°	83.3	2.0	1.9
0°-40°	136.5	3.3	3.0
0°-60°	234.5	5.7	5.2
0°-90°	282.8	6.9	6.3
90°-120°	1148.2	28.1	25.5
90°-150°	2973.1	72.7	66.1
90°-180°	3808.0	93.1	84.6
0°-180°	4090.4	100.0	90.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	106	106	106	106	106	
5°	108	106	106	106	103	10
15°	104	103	103	103	100	29
25°	97	96	95	96	95	45
35°	85	84	85	86	85	53
45°	69	67	70	70	69	53
55°	50	50	51	50	49	45
65°	31	30	30	30	29	31
75°	18	13	13	13	12	19
85°	4	4	3	3	2	5
90°	0	3	1	1	1	2
95°	42	126	114	91	78	49
105°	192	314	493	551	547	203
115°	368	466	599	721	755	365
125°	544	615	717	790	814	486
135°	701	751	828	886	903	541
145°	834	859	913	951	965	522
155°	939	946	979	1001	1010	433
165°	1008	1002	1012	1019	1026	284
175°	1046	1032	1030	1026	1029	99
180°	1035	1035	1035	1035	1035	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	105.8	105.8	105.8	105.8	105.8
2.5°	107.7	106.8	106.5	106.3	103.8
5°	107.5	106.4	106.1	105.9	103.1
7.5°	107.3	106.2	105.8	105.5	102.8
10°	106.2	105.4	105.1	104.8	102.4
12.5°	105.3	104.4	104.2	104.2	101.5
15°	104.1	103.4	103.2	103.1	100.5
17.5°	102.8	101.9	101.7	101.3	99.0
20°	101.2	100.3	100.0	99.4	97.1
22.5°	99.2	98.6	98.0	97.2	95.7
25°	97.2	96.4	95.4	96.0	95.0
27.5°	94.9	93.8	92.7	94.8	93.5
30°	91.9	90.9	90.0	92.6	91.1
32.5°	88.8	87.8	87.7	89.8	88.2
35°	85.3	84.1	85.1	86.4	85.1
37.5°	81.5	80.2	82.0	82.7	81.6
40°	77.6	76.3	78.4	79.0	77.7
42.5°	73.2	71.8	74.4	74.8	73.4
45°	68.8	67.3	70.2	70.2	69.1
47.5°	64.4	62.8	65.7	65.5	64.2
50°	59.7	58.6	61.0	60.3	59.1
52.5°	55.0	54.4	55.9	55.2	54.1
55°	50.1	49.9	50.9	50.1	49.0
57.5°	45.2	44.9	45.7	44.8	43.8
60°	40.4	40.1	40.5	39.7	38.7
62.5°	35.6	35.1	35.3	34.6	33.7
65°	31.3	30.2	30.3	29.7	28.9
67.5°	27.3	25.5	25.3	24.8	24.0
70°	23.8	21.0	20.6	20.3	19.7
72.5°	21.2	16.8	16.5	16.5	15.8
75°	18.4	13.1	12.7	12.8	12.1
77.5°	15.3	10.0	9.5	9.7	8.9
80°	11.7	7.3	7.0	6.7	6.2
82.5°	7.8	5.2	4.6	4.6	4.1
85°	4.4	4.1	2.8	2.8	2.3
87.5°	1.9	3.0	1.5	1.5	1.1
90°	0.0	3.3	0.7	0.7	0.7
92.5°	12.3	37.7	27.1	23.2	23.2
95°	42.1	126.3	113.5	90.6	77.9
97.5°	75.3	216.0	218.9	197.8	186.7
100°	111.0	258.1	332.7	311.0	298.3
102.5°	150.2	287.7	443.0	437.7	430.0
105°	192.0	313.9	493.2	550.9	547.4
107.5°	234.8	347.9	528.1	634.7	654.4
110°	278.7	386.2	555.5	667.0	699.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	323.5	425.6	576.9	695.3	727.2
115°	368.4	465.6	598.6	720.7	754.7
117.5°	413.4	503.9	623.5	735.6	771.4
120°	458.1	541.7	656.0	749.7	784.7
122.5°	501.5	578.5	685.7	766.9	796.8
125°	543.7	615.2	717.4	789.5	814.0
127.5°	585.0	650.4	747.9	815.2	838.2
130°	624.5	685.1	776.6	838.6	859.2
132.5°	663.2	718.3	804.0	862.4	882.3
135°	701.1	750.7	828.0	885.9	903.1
137.5°	737.5	778.0	850.4	905.4	924.8
140°	771.7	804.7	871.4	920.3	940.8
142.5°	803.7	831.8	891.8	932.3	946.3
145°	834.5	859.2	913.2	951.2	965.2
147.5°	864.0	884.2	935.2	966.3	978.6
150°	890.9	906.6	953.1	980.3	991.0
152.5°	916.3	927.0	967.5	990.7	1001.0
155°	938.9	945.7	979.3	1000.8	1010.5
157.5°	958.6	961.7	988.7	1007.4	1017.5
160°	977.2	975.9	997.9	1013.2	1021.3
162.5°	993.2	989.4	1005.6	1017.2	1024.0
165°	1007.6	1001.6	1011.9	1019.3	1025.9
167.5°	1020.3	1011.5	1019.3	1020.8	1027.7
170°	1031.3	1019.9	1023.8	1022.8	1029.1
172.5°	1039.7	1027.2	1027.8	1025.4	1030.6
175°	1045.7	1032.0	1030.5	1026.3	1029.0
177.5°	1049.3	1034.6	1032.0	1025.9	1029.0
180°	1034.6	1034.6	1034.6	1034.6	1034.6

(END OF REPORT)