

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: 15714

Luminaire Tested: **IP-WP-4T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 15714
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IP-WP-4T8
Description: CORELITE 4 LAMP T8 DIRECT/INDIRECT LUMINAIRE - IRIIDIUM PERF

WITH WHITE INTERIOR AND WHITE LENS OVER PERFORATIONS

Light Source: FOUR PHILIPS 32 WATT T8 LAMPS

F32T8/TL841. LUMEN RATING = 2950 LMS.

Ballast/Driver: ONE MAGNETEK B432IUNV HP--B BALLAST OPERATING AT 120 VAC AND 112 WATTS

Summary

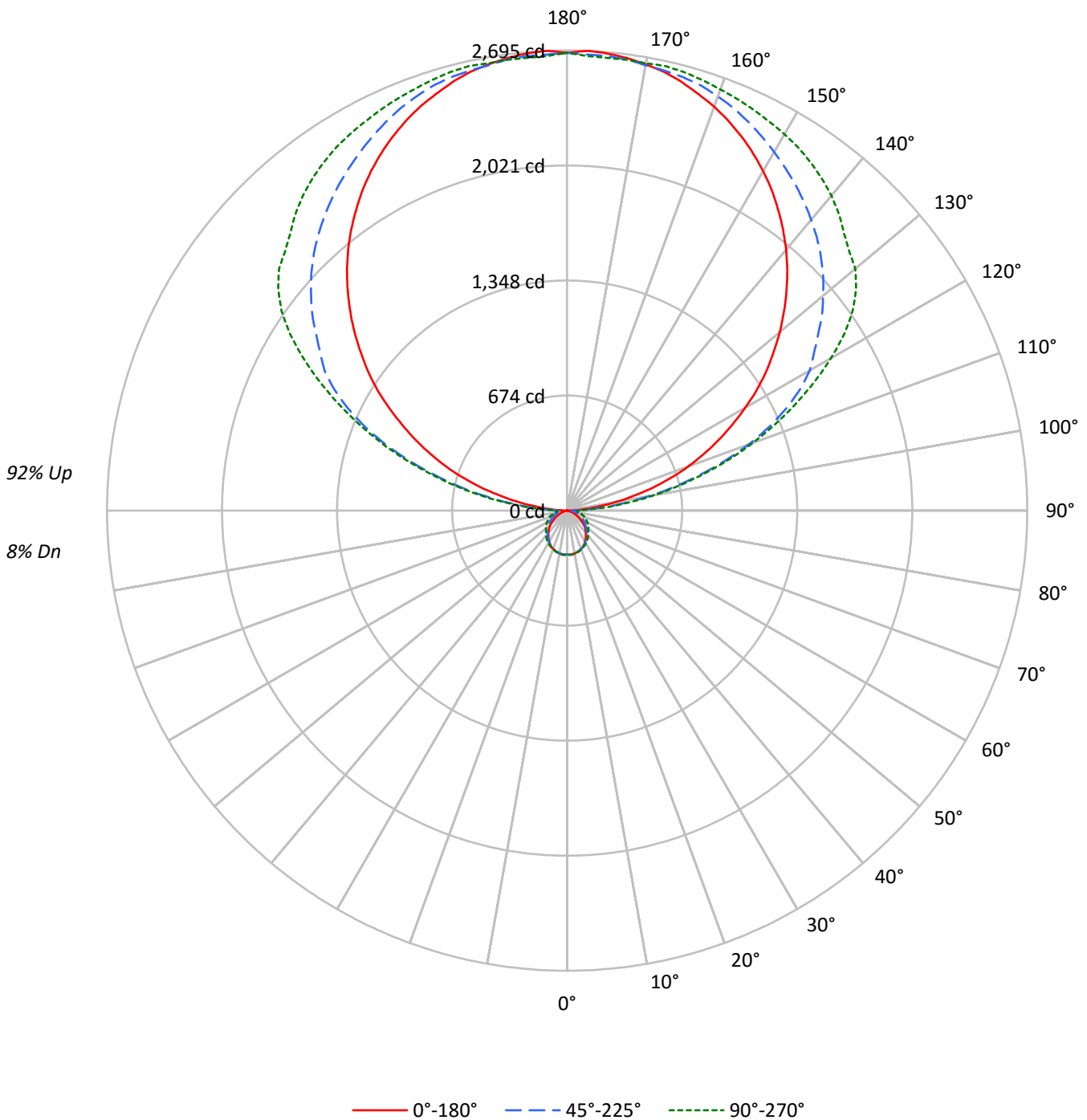
Lumens per Lamp: 2950 (4 lamps)
Luminaire Lumens: 9886.2 lumens
Efficiency: 83.8%
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.75' x H: 0.25')
CIE Type: Indirect

Input Watts (W): 112
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				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	81	81	81	81	70	70	70	70	50	50	50	31	31	31	14	14	14	6
1	74	70	67	65	64	61	59	56	43	42	41	27	27	26	12	12	12	5
2	67	61	57	53	58	53	49	46	38	36	33	24	23	21	11	10	10	4
3	61	54	48	44	53	47	42	38	33	30	28	21	19	18	10	9	8	4
4	56	47	41	37	48	41	36	32	30	26	24	19	17	15	9	8	7	3
5	51	42	36	31	44	37	31	27	26	23	20	17	15	13	8	7	6	3
6	47	37	31	27	40	33	27	23	23	20	17	15	13	11	7	6	5	2
7	43	34	27	23	37	29	24	20	21	18	15	13	11	10	6	5	5	2
8	40	30	24	20	34	26	21	18	19	16	13	12	10	9	6	5	4	2
9	37	27	22	18	32	24	19	16	17	14	12	11	9	8	5	4	4	2
10	34	25	19	16	30	22	17	14	16	12	10	10	8	7	5	4	3	1

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	922	922	922
5°	911	915	926
10°	880	884	917
15°	847	858	918
20°	810	826	906
25°	775	803	887
30°	724	759	875
35°	677	720	869
40°	626	672	855
45°	574	643	838
50°	505	594	842
55°	423	574	866
60°	347	541	869
65°	267	499	916
70°	198	479	962
75°	106	448	994
80°	56	405	1207
85°	18	326	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	24.5	0.2	0.2
10°-20°	69.7	0.7	0.6
20°-30°	104.6	1.1	0.9
30°-40°	123.1	1.2	1.0
40°-50°	125.0	1.3	1.1
50°-60°	112.4	1.1	1.0
60°-70°	90.7	0.9	0.8
70°-80°	65.4	0.7	0.6
80°-90°	38.6	0.4	0.3
90°-100°	234.0	2.4	2.0
100°-110°	796.7	8.1	6.8
110°-120°	1304.6	13.2	11.1
120°-130°	1579.9	16.0	13.4
130°-140°	1605.5	16.2	13.6
140°-150°	1458.3	14.8	12.4
150°-160°	1156.8	11.7	9.8
160°-170°	741.9	7.5	6.3
170°-180°	254.4	2.6	2.2
0°-30°	198.8	2.0	1.7
0°-40°	321.9	3.3	2.7
0°-60°	559.3	5.7	4.7
0°-90°	754.1	7.6	6.4
90°-120°	2335.2	23.6	19.8
90°-150°	6979.0	70.6	59.1
90°-180°	9132.0	92.4	77.4
0°-180°	9886.2	100.0	83.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	257	257	257	257	257	
5°	260	256	260	254	259	25
15°	248	247	248	244	251	70
25°	226	224	229	228	231	104
35°	190	192	197	203	207	119
45°	151	152	162	172	176	115
55°	100	108	128	142	151	91
65°	54	69	94	114	122	54
75°	17	36	66	88	88	22
85°	2	14	33	51	58	3
90°	0	15	34	56	65	5
95°	97	177	207	219	231	122
105°	520	746	802	814	826	548
115°	979	1176	1416	1474	1476	968
125°	1424	1542	1793	1971	2043	1271
135°	1817	1915	2102	2247	2294	1401
145°	2154	2241	2330	2451	2488	1348
155°	2417	2451	2511	2559	2588	1114
165°	2598	2605	2627	2645	2657	733
175°	2688	2682	2672	2660	2661	255
180°	2681	2681	2681	2681	2681	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	257.0	257.0	257.0	257.0	257.0
2.5°	259.0	259.0	257.3	259.0	260.2
5°	260.2	255.7	260.2	254.1	258.6
7.5°	259.0	255.7	257.3	252.9	255.7
10°	255.7	252.5	254.5	252.9	254.5
12.5°	251.3	249.6	249.6	250.1	251.7
15°	248.4	246.8	248.4	244.0	251.3
17.5°	242.8	241.1	244.0	241.1	245.6
20°	237.9	238.3	238.3	236.7	242.8
22.5°	233.8	230.6	233.4	232.2	238.3
25°	226.2	224.5	229.4	227.8	230.6
27.5°	218.9	215.6	222.1	223.3	226.6
30°	208.3	208.3	212.8	217.6	218.9
32.5°	201.0	199.4	201.0	208.7	214.4
35°	190.5	192.1	196.6	202.7	207.1
37.5°	180.0	181.6	186.0	193.3	199.4
40°	171.1	175.9	177.1	190.5	192.1
42.5°	159.3	162.1	169.8	177.1	184.4
45°	150.8	152.0	162.1	171.5	175.5
47.5°	138.6	141.9	153.6	163.8	167.0
50°	126.5	131.4	141.9	155.3	162.1
52.5°	115.1	119.2	134.2	150.4	158.1
55°	99.8	107.5	128.5	141.9	150.8
57.5°	89.6	98.5	114.7	135.8	143.1
60°	76.3	88.0	111.9	125.3	134.2
62.5°	64.1	76.3	101.8	120.8	129.7
65°	54.0	69.0	94.1	113.5	122.4
67.5°	43.4	61.3	85.2	110.7	114.7
70°	36.2	50.7	80.7	103.0	107.5
72.5°	25.6	43.4	73.4	95.7	101.4
75°	17.1	36.2	66.1	88.0	88.4
77.5°	18.3	32.9	60.1	77.9	85.2
80°	7.8	27.2	50.7	71.8	79.1
82.5°	5.0	19.9	43.4	60.1	68.6
85°	2.1	13.9	33.3	51.1	58.4
87.5°	0.5	11.0	28.9	43.8	55.2
90°	0.5	15.1	34.5	56.0	64.9
92.5°	32.9	67.3	95.3	108.7	115.1
95°	96.9	177.1	206.7	218.9	230.6
97.5°	190.5	310.4	342.0	359.8	367.1
100°	292.6	499.2	490.3	542.6	515.8
102.5°	396.7	569.3	644.6	614.7	666.9
105°	519.9	745.9	801.8	813.6	825.7
107.5°	638.6	863.0	967.9	980.1	991.8
110°	754.4	954.6	1131.2	1147.8	1156.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	865.8	1070.4	1278.7	1312.7	1316.7
115°	978.9	1175.8	1416.4	1474.3	1475.5
117.5°	1089.9	1277.0	1537.9	1623.8	1633.1
120°	1204.1	1375.9	1640.4	1769.7	1784.2
122.5°	1318.4	1496.6	1713.3	1925.2	1923.6
125°	1423.7	1542.4	1793.2	1971.4	2042.7
127.5°	1524.6	1652.2	1881.1	2067.8	2133.0
130°	1625.4	1738.5	1957.6	2118.1	2202.7
132.5°	1722.3	1827.6	2033.8	2177.6	2242.8
135°	1817.1	1914.7	2102.3	2247.3	2293.5
137.5°	1909.0	1997.7	2165.5	2302.0	2355.9
140°	1994.9	2076.7	2223.4	2355.9	2407.7
142.5°	2076.7	2153.7	2278.5	2398.8	2450.3
145°	2153.7	2241.2	2330.3	2450.7	2487.9
147.5°	2228.3	2272.8	2378.1	2466.9	2520.3
150°	2296.3	2349.8	2425.1	2502.5	2545.5
152.5°	2358.7	2403.3	2469.7	2532.5	2566.5
155°	2416.6	2450.7	2511.4	2558.8	2588.4
157.5°	2469.7	2496.4	2549.9	2584.4	2607.8
160°	2517.5	2534.9	2581.5	2605.0	2624.5
162.5°	2557.2	2573.8	2609.5	2630.5	2642.3
165°	2597.7	2605.0	2627.3	2645.1	2656.9
167.5°	2630.5	2637.8	2639.0	2650.8	2665.8
170°	2654.0	2648.4	2648.4	2652.4	2660.1
172.5°	2673.5	2670.2	2664.6	2655.2	2662.9
175°	2687.7	2682.0	2671.9	2659.7	2661.3
177.5°	2695.4	2690.9	2673.5	2662.9	2664.6
180°	2680.6	2680.6	2680.6	2680.6	2680.6

(END OF REPORT)