

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: 23106

Luminaire Tested: **R1-WLfront50/50sides-2N5-1C-UNV-22-T**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23106
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WLfront50/50sides-2N5-1C-UNV-22-T
Description: WHITE INTERIOR AND LINEAR PRISMATIC PLASTIC LENS WITH FROSTED LENS
AND SIDES
Light Source: TWO SYLVANIA 14 WATT T5 LAMPS

FP14/841. LUMEN RATING = 1200 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 1200 (2 lamps)
Luminaire Lumens: 1965.3 lumens
Efficiency: 81.9%
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.34 / 1.41
Luminous Opening: Rectangular (W 1.95' x L: 1.91' x H: 0')
CIE Type: Direct

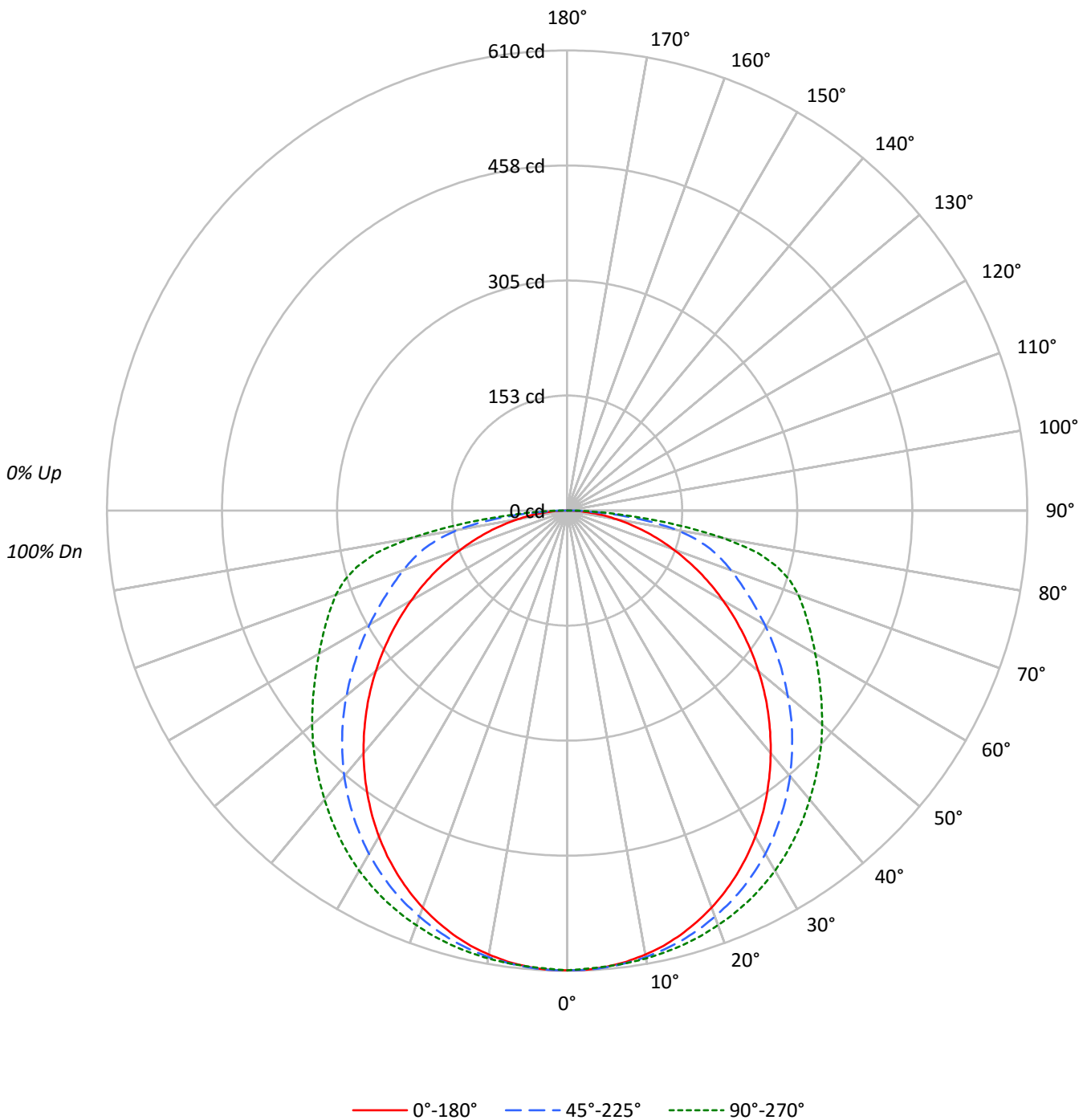
Input Watts (W): 32
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	97	97	97	95	95	95	95	91	91	91		87	87	87		84	84	84	82
1	88	83	79	76	86	81	78	75	78	75	72		75	72	70		72	70	68	66
2	79	72	66	60	77	70	65	60	67	62	58		64	60	57		62	59	56	54
3	72	62	55	49	70	61	54	49	59	53	48		56	51	47		54	50	46	45
4	66	55	47	42	64	54	47	41	52	46	41		50	44	40		48	43	39	38
5	60	49	41	35	58	48	41	35	46	40	35		45	39	34		43	38	34	32
6	55	44	36	31	54	43	36	31	42	35	30		40	34	30		39	34	30	28
7	51	40	32	27	50	39	32	27	38	31	27		37	31	27		35	30	26	25
8	48	36	29	24	46	36	29	24	35	28	24		34	28	24		33	27	24	22
9	45	33	26	22	43	33	26	22	32	26	21		31	25	21		30	25	21	20
10	42	31	24	20	41	30	24	20	29	23	19		29	23	19		28	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1761	1761	1761
5°	1761	1763	1759
10°	1754	1764	1769
15°	1742	1764	1783
20°	1722	1762	1799
25°	1697	1759	1819
30°	1666	1753	1839
35°	1627	1744	1861
40°	1584	1734	1887
45°	1538	1724	1928
50°	1489	1717	1984
55°	1436	1721	2064
60°	1381	1748	2196
65°	1325	1811	2411
70°	1262	1954	2756
75°	1193	2196	3221
80°	1113	2457	3503
85°	1005	2258	2855



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	57.7	2.9	2.4
10°-20°	166.3	8.5	6.9
20°-30°	254.1	12.9	10.6
30°-40°	309.2	15.7	12.9
40°-50°	326.3	16.6	13.6
50°-60°	308.4	15.7	12.8
60°-70°	266.6	13.6	11.1
70°-80°	204.2	10.4	8.5
80°-90°	72.4	3.7	3.0
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°	478.2	24.3	19.9
0°-40°	787.4	40.1	32.8
0°-60°	1422.1	72.4	59.3
0°-90°	1965.3	100.0	81.9
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°	1965.3	100.0	81.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	607	607	608	607	606	58
15°	582	584	590	594	596	164
25°	532	537	552	565	570	245
35°	461	470	494	518	527	288
45°	376	388	422	456	472	290
55°	285	299	342	389	410	255
65°	194	210	265	327	352	192
75°	107	127	197	263	288	113
85°	30	41	68	82	86	34
90°	1	3	6	7	9	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	609.5	609.5	609.5	609.5	609.5
2.5°	609.3	609.2	609.3	608.6	607.7
5°	606.9	607.1	607.6	607.2	606.5
7.5°	603.1	603.4	604.9	605.3	605.0
10°	597.6	598.5	601.0	602.6	602.9
12.5°	590.9	592.1	595.9	599.0	599.6
15°	582.1	583.9	589.6	594.5	595.9
17.5°	571.8	574.4	581.8	588.6	590.9
20°	560.0	563.3	572.8	581.7	584.8
22.5°	546.8	550.9	562.8	573.9	578.2
25°	532.2	537.3	551.6	565.3	570.4
27.5°	516.3	522.4	539.1	555.1	561.3
30°	499.1	506.1	525.4	543.9	551.2
32.5°	480.5	488.6	510.3	531.3	539.9
35°	461.1	470.2	494.2	517.8	527.4
37.5°	440.8	451.0	477.4	503.6	514.3
40°	419.9	430.9	459.7	488.3	500.2
42.5°	398.3	409.9	440.9	472.0	486.1
45°	376.4	388.4	421.8	456.1	471.8
47.5°	354.1	366.7	402.3	440.1	456.9
50°	331.2	344.2	381.8	423.8	441.2
52.5°	308.0	321.2	361.3	406.5	425.4
55°	284.9	298.7	341.6	389.4	409.6
57.5°	261.8	276.2	322.0	373.0	394.5
60°	238.9	253.9	302.5	357.2	379.9
62.5°	216.2	231.6	283.2	341.9	365.9
65°	193.7	209.6	264.8	327.3	352.5
67.5°	171.4	187.9	247.4	313.1	339.4
70°	149.3	167.0	231.2	299.2	326.2
72.5°	127.9	146.8	214.7	283.5	310.0
75°	106.8	127.1	196.7	263.4	288.5
77.5°	86.4	107.9	174.6	236.6	259.0
80°	66.9	88.2	147.6	197.1	210.5
82.5°	48.3	65.4	111.1	142.3	147.8
85°	30.3	40.7	68.1	81.7	86.1
87.5°	12.6	16.6	28.2	33.2	36.7
90°	1.1	2.6	5.9	6.8	8.9

(END OF REPORT)