

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: 23301

Luminaire Tested: **R2-WB-1N5-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23301
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WB-1N5-22
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH
WHITE BAFFLE
Light Source: ONE SYLVANIA 14 WATT T5 LAMP

FP14/841. LUMEN RATING = 1200 LMS.

Ballast/Driver: -

Summary

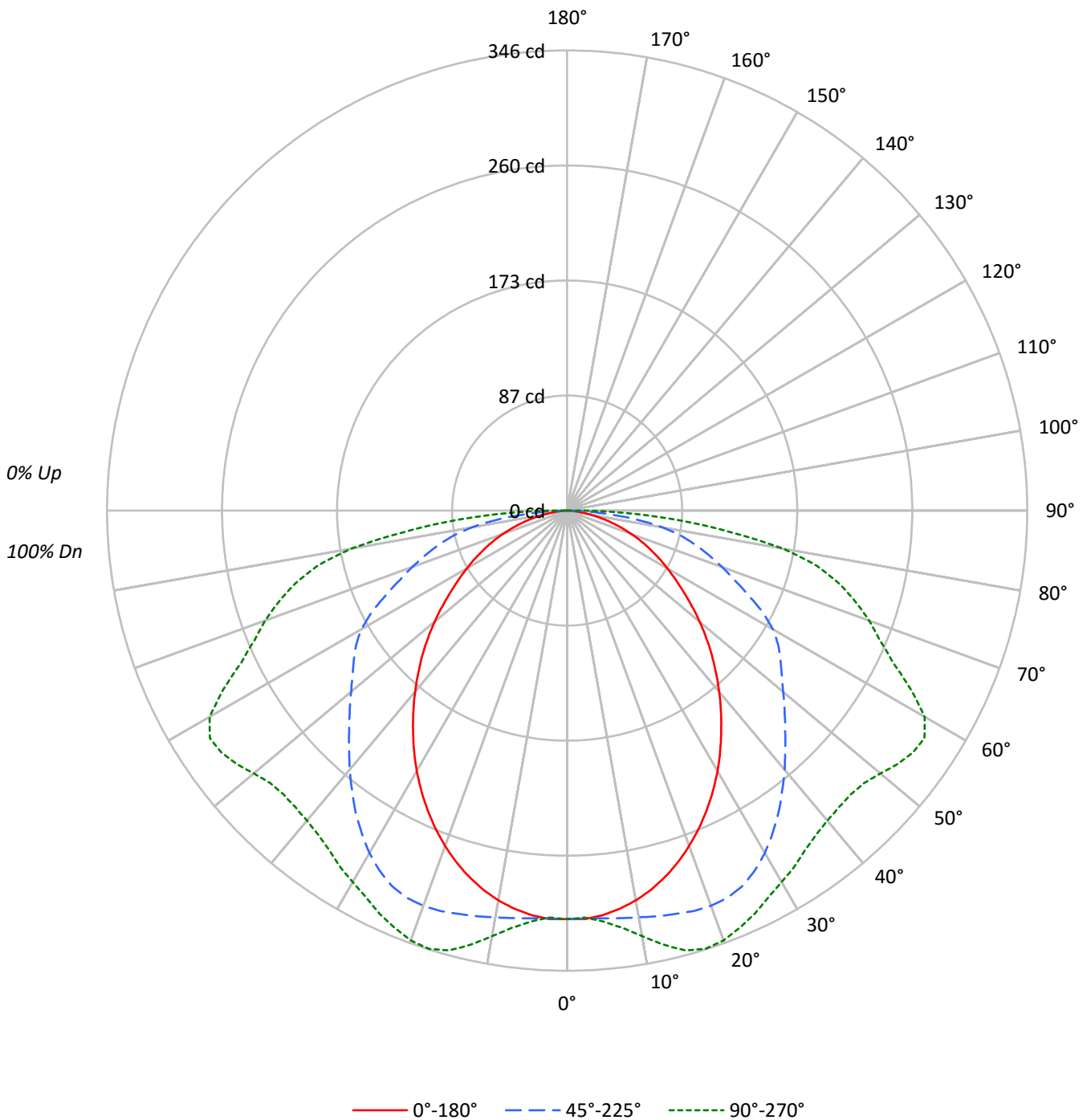
Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 1096.7 lumens
Efficiency: 91.4%
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.53 / 1.48
Luminous Opening: Rectangular (W 1.95' x L: 1.91' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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	109	109	109	109	106	106	106	106	102	102	102		97	97	97		93	93	93	91
1	98	93	88	84	95	91	86	83	87	83	80		83	80	78		80	77	75	73
2	88	80	73	67	85	78	71	66	74	69	64		71	67	63		69	65	61	59
3	80	69	61	54	77	68	60	54	65	58	53		62	57	52		60	55	51	49
4	73	61	52	45	70	59	51	45	57	50	44		55	49	44		53	48	43	41
5	67	54	45	39	64	53	45	38	51	44	38		49	43	38		47	42	37	35
6	61	48	40	33	59	47	39	33	46	38	33		44	38	33		43	37	32	30
7	57	44	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
8	53	40	32	26	51	39	31	26	38	31	26		37	30	26		36	30	25	24
9	49	36	29	23	48	36	28	23	35	28	23		34	27	23		33	27	23	21
10	46	34	26	21	45	33	26	21	32	25	21		31	25	21		30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	888	888	888
5°	886	893	899
10°	873	911	953
15°	853	939	1024
20°	825	972	1058
25°	792	994	1066
30°	755	992	1076
35°	713	978	1100
40°	671	959	1148
45°	629	947	1233
50°	585	953	1383
55°	539	987	1599
60°	504	1033	1794
65°	472	1028	1849
70°	434	1046	2040
75°	382	1120	2364
80°	305	1215	2744
85°	202	1041	2819



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	29.5	2.7	2.5
10°-20°	88.6	8.1	7.4
20°-30°	137.8	12.6	11.5
30°-40°	166.4	15.2	13.9
40°-50°	177.4	16.2	14.8
50°-60°	180.3	16.4	15.0
60°-70°	157.0	14.3	13.1
70°-80°	116.0	10.6	9.7
80°-90°	43.7	4.0	3.6
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°	255.9	23.3	21.3
0°-40°	422.3	38.5	35.2
0°-60°	780.0	71.1	65.0
0°-90°	1096.7	100.0	91.4
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°	1096.7	100.0	91.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	307	307	307	307	307	
5°	305	306	308	309	310	29
15°	285	293	314	335	342	80
25°	248	266	312	329	334	114
35°	202	230	277	299	312	126
45°	154	181	232	276	302	119
55°	107	127	196	273	317	96
65°	69	81	150	229	270	68
75°	34	46	100	174	212	36
85°	6	12	31	64	85	8
90°	0	0	2	8	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	307.2	307.2	307.2	307.2	307.2
2.5°	307.4	307.7	306.9	306.5	306.3
5°	305.4	306.3	307.7	309.4	310.0
7.5°	302.1	304.1	309.1	314.0	316.3
10°	297.6	301.5	310.5	320.8	324.8
12.5°	291.9	297.7	312.4	328.0	334.3
15°	285.0	292.8	314.0	335.3	342.3
17.5°	277.2	287.0	315.7	339.2	345.5
20°	268.3	281.1	316.2	338.9	343.9
22.5°	258.7	274.0	315.1	334.6	339.4
25°	248.4	266.5	311.6	328.7	334.2
27.5°	237.6	258.1	305.3	321.4	327.7
30°	226.1	249.3	297.3	313.5	322.5
32.5°	214.2	240.4	287.6	306.3	317.7
35°	202.0	230.2	277.2	299.2	311.8
37.5°	190.0	218.9	265.6	291.6	307.3
40°	177.8	206.6	254.3	284.9	304.3
42.5°	165.8	193.9	242.7	280.0	302.5
45°	153.9	180.6	231.8	276.1	301.7
47.5°	142.0	167.1	221.7	273.1	303.0
50°	130.1	153.3	212.0	271.8	307.5
52.5°	118.3	139.7	203.4	272.4	313.1
55°	106.9	126.8	195.8	273.0	317.3
57.5°	96.7	114.4	188.2	270.5	318.5
60°	87.2	102.7	178.8	262.5	310.4
62.5°	78.1	91.7	165.8	247.0	291.4
65°	69.0	81.4	150.3	228.6	270.4
67.5°	60.1	72.1	136.1	213.1	254.4
70°	51.4	63.1	123.8	200.7	241.4
72.5°	42.7	54.5	111.9	188.5	227.2
75°	34.2	46.0	100.3	174.1	211.7
77.5°	25.9	38.0	87.7	157.2	192.6
80°	18.3	30.1	73.0	134.3	164.9
82.5°	11.7	21.7	54.1	100.4	123.8
85°	6.1	12.3	31.4	64.2	85.0
87.5°	1.9	3.7	12.8	33.0	45.0
90°	0.0	0.1	2.2	7.5	11.5

(END OF REPORT)