

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: 23490

Luminaire Tested: **R1-WP-2N5-1C-UNV-22-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23490
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WP-2N5-1C-UNV-22-T1
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS WITH
ROUND PERF
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: 1494.7 lumens
Efficiency: 62.3%
Efficacy: 48.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39
Luminous Opening: Rectangular (W 1.95' x L: 1.91' x H: 0')
CIE Type: Direct

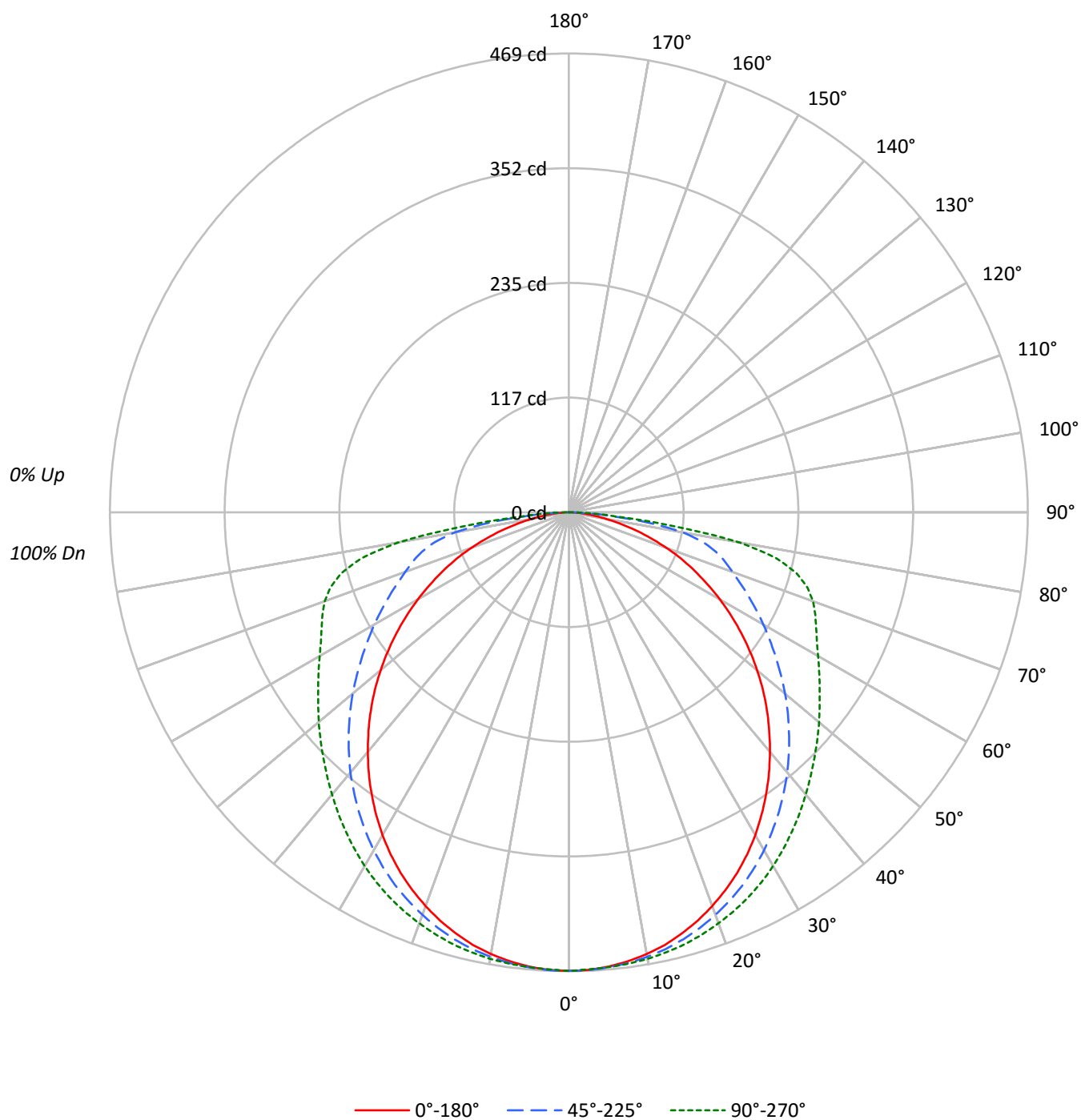
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	74	74	74	74	72	72	72	72	69	69	69	66	66	66	64	64	64
1	67	63	60	58	65	62	59	57	59	57	55	57	55	53	55	53	52
2	60	55	50	46	59	53	49	45	51	47	44	49	46	43	47	45	42
3	55	48	42	38	53	47	41	37	45	40	37	43	39	36	41	38	35
4	50	42	36	32	48	41	36	31	39	35	31	38	34	30	37	33	30
5	46	37	31	27	44	37	31	27	35	30	27	34	30	26	33	29	26
6	42	33	28	23	41	33	27	23	32	27	23	31	26	23	30	26	23
7	39	30	25	21	38	30	24	21	29	24	20	28	23	20	27	23	20
8	36	28	22	18	35	27	22	18	26	22	18	26	21	18	25	21	18
9	34	25	20	16	33	25	20	16	24	20	16	24	19	16	23	19	16
10	32	23	18	15	31	23	18	15	22	18	15	22	18	15	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1355	1355	1355
5°	1352	1355	1354
10°	1345	1354	1360
15°	1334	1352	1368
20°	1317	1346	1375
25°	1297	1341	1384
30°	1271	1331	1393
35°	1240	1319	1403
40°	1206	1310	1420
45°	1170	1300	1450
50°	1129	1297	1500
55°	1083	1300	1576
60°	1031	1327	1699
65°	971	1384	1906
70°	894	1502	2242
75°	784	1736	2690
80°	636	1966	2951
85°	504	1413	1585



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	44.4	3.0	1.8
10°-20°	127.4	8.5	5.3
20°-30°	193.6	13.0	8.1
30°-40°	234.2	15.7	9.8
40°-50°	246.4	16.5	10.3
50°-60°	233.6	15.6	9.7
60°-70°	204.6	13.7	8.5
70°-80°	160.5	10.7	6.7
80°-90°	49.9	3.3	2.1
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°	365.4	24.4	15.2
0°-40°	599.6	40.1	25.0
0°-60°	1079.6	72.2	45.0
0°-90°	1494.7	100.0	62.3
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°	1494.7	100.0	62.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	466	467	467	467	467	44
15°	446	448	452	455	457	126
25°	407	410	420	430	434	187
35°	352	358	374	390	398	220
45°	286	295	318	343	355	221
55°	215	226	258	296	313	192
65°	142	156	202	256	279	141
75°	70	91	156	218	241	75
85°	15	26	43	47	48	18
90°	1	1	3	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	468.7	468.7	468.7	468.7	468.7
2.5°	468.1	468.4	468.4	467.8	467.5
5°	466.1	466.6	466.9	466.7	466.6
7.5°	462.8	463.5	464.6	465.1	465.3
10°	458.4	459.6	461.3	462.7	463.4
12.5°	452.9	454.4	457.2	459.5	460.5
15°	445.8	447.7	451.8	455.4	457.2
17.5°	437.6	440.0	445.3	450.1	452.4
20°	428.2	431.2	437.8	444.0	447.0
22.5°	418.0	421.4	429.5	437.1	441.0
25°	406.7	410.5	420.4	429.5	434.0
27.5°	394.3	398.5	410.0	420.7	426.2
30°	380.9	385.8	398.8	411.3	417.4
32.5°	366.5	372.1	386.7	401.0	407.9
35°	351.5	357.8	374.0	390.3	397.7
37.5°	335.9	342.8	360.8	379.1	387.4
40°	319.6	327.2	347.2	367.4	376.5
42.5°	303.1	311.0	332.8	355.0	365.7
45°	286.2	294.6	318.1	343.0	354.8
47.5°	268.9	277.9	303.5	331.0	344.2
50°	251.2	260.6	288.4	319.1	333.7
52.5°	233.0	242.9	273.0	307.2	322.9
55°	214.9	225.5	258.1	295.5	312.8
57.5°	196.7	208.0	243.5	284.5	303.2
60°	178.3	190.5	229.5	274.1	294.0
62.5°	159.9	173.2	215.7	264.3	285.7
65°	142.0	156.0	202.4	255.6	278.7
67.5°	124.2	139.0	189.5	248.1	272.5
70°	105.8	122.2	177.8	240.6	265.3
72.5°	87.8	105.9	167.2	231.0	255.6
75°	70.2	90.7	155.5	217.6	240.9
77.5°	53.4	76.3	140.2	196.5	217.4
80°	38.2	61.9	118.1	161.6	177.3
82.5°	25.8	45.2	83.6	103.2	107.9
85°	15.2	25.7	42.6	46.6	47.8
87.5°	6.3	9.4	15.3	20.2	23.0
90°	0.8	1.4	2.9	3.6	3.8

(END OF REPORT)