

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: 23295

Luminaire Tested: **R1-WB-2N5-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23295
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WB-2N5-22
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH
WHITE BAFFLE
Light Source: TWO SYLVANIA 14 WATT T5 LAMPS

FP14/841. LUMEN RATING = 1200 LMS.

Ballast/Driver: -

Summary

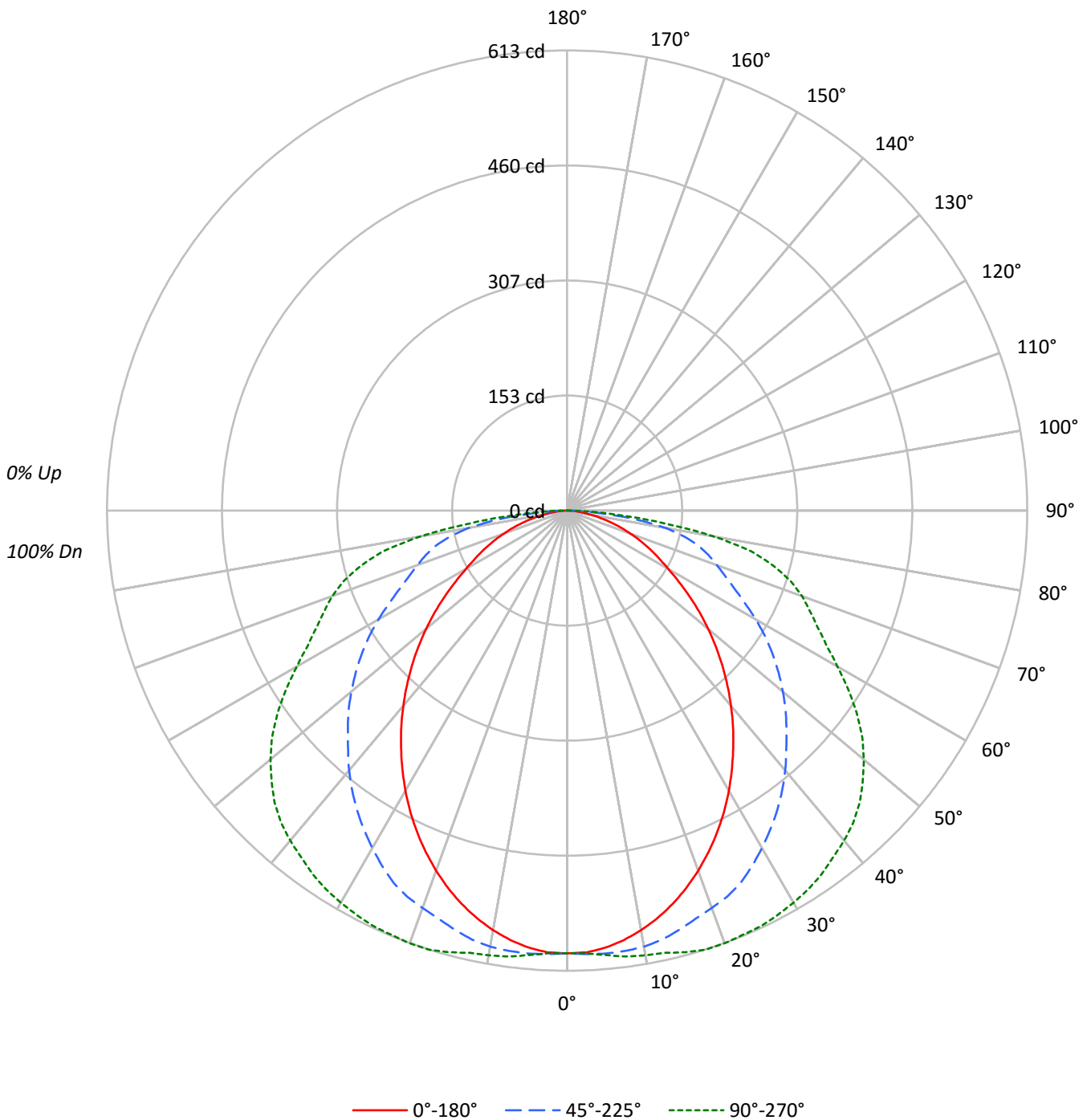
Lumens per Lamp: 1200 (2 lamps)
Luminaire Lumens: 1871.3 lumens
Efficiency: 78.0%
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.52 / 1.43
Luminous Opening: Rectangular (W 1.95' x L: 1.91' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	78
1	84	80	76	73	82	78	75	72	75	72	69	72	69	67	69	67	65	64
2	76	69	63	58	74	67	62	58	65	60	56	62	58	55	60	57	54	52
3	69	60	53	48	67	59	53	48	57	51	47	54	50	46	52	48	45	43
4	63	53	46	40	61	52	45	40	50	44	40	48	43	39	46	42	38	37
5	58	47	40	35	56	46	40	34	45	39	34	43	38	34	42	37	33	32
6	53	43	35	30	52	42	35	30	40	34	30	39	34	29	38	33	29	27
7	49	38	31	27	48	38	31	26	37	31	26	35	30	26	34	30	26	24
8	46	35	28	24	45	35	28	24	33	28	23	32	27	23	32	27	23	22
9	43	32	26	21	42	32	25	21	31	25	21	30	25	21	29	24	21	19
10	40	30	23	19	39	29	23	19	28	23	19	28	23	19	27	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1704	1704	1704
5°	1696	1719	1724
10°	1666	1731	1765
15°	1623	1730	1822
20°	1570	1732	1886
25°	1508	1745	1948
30°	1438	1732	2013
35°	1361	1720	2085
40°	1281	1705	2165
45°	1195	1688	2252
50°	1102	1687	2320
55°	1002	1686	2373
60°	898	1678	2405
65°	832	1680	2517
70°	760	1791	2815
75°	668	2022	3183
80°	541	2205	3309
85°	408	1684	2421



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	56.3	3.0	2.3
10°-20°	163.1	8.7	6.8
20°-30°	250.4	13.4	10.4
30°-40°	305.0	16.3	12.7
40°-50°	321.7	17.2	13.4
50°-60°	296.7	15.9	12.4
60°-70°	240.8	12.9	10.0
70°-80°	180.2	9.6	7.5
80°-90°	57.1	3.1	2.4
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°	469.8	25.1	19.6
0°-40°	774.8	41.4	32.3
0°-60°	1393.2	74.5	58.1
0°-90°	1871.3	100.0	78.0
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°	1871.3	100.0	78.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	584	587	592	594	594	55
15°	543	556	578	599	609	153
25°	473	496	547	589	611	217
35°	386	419	488	555	591	241
45°	292	328	413	506	551	226
55°	199	231	335	428	471	178
65°	122	142	246	332	368	121
75°	60	82	181	258	285	64
85°	12	24	51	66	73	15
90°	0	1	3	5	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	589.7	589.7	589.7	589.7	589.7
2.5°	589.1	590.1	591.4	591.0	590.3
5°	584.5	587.4	592.4	594.1	594.4
7.5°	577.2	583.0	591.7	597.4	599.1
10°	567.7	576.3	589.8	598.7	601.5
12.5°	556.1	567.6	585.4	597.5	603.4
15°	542.6	556.5	578.1	598.7	609.0
17.5°	527.3	544.1	569.9	600.8	613.4
20°	510.4	529.4	563.3	599.7	613.3
22.5°	492.2	513.6	556.7	594.6	611.7
25°	472.9	496.3	547.2	589.2	610.8
27.5°	452.5	477.7	533.7	582.8	607.3
30°	430.8	458.6	519.1	574.6	603.1
32.5°	408.4	439.5	503.8	565.2	598.1
35°	385.8	419.4	487.6	554.9	591.1
37.5°	362.9	398.0	470.4	542.7	582.1
40°	339.6	375.2	452.0	530.3	573.9
42.5°	316.1	351.3	432.1	518.8	564.0
45°	292.5	327.5	413.1	506.4	550.9
47.5°	269.0	303.6	395.0	491.1	534.1
50°	245.2	278.9	375.2	472.6	515.9
52.5°	221.8	254.5	355.1	451.5	495.4
55°	198.8	231.1	334.6	428.5	471.0
57.5°	176.1	207.7	313.1	403.8	444.0
60°	155.4	184.1	290.3	377.8	416.0
62.5°	137.8	161.5	267.0	353.1	389.7
65°	121.7	141.9	245.6	331.9	368.1
67.5°	105.7	124.6	227.6	314.8	350.0
70°	89.9	108.7	212.0	299.4	333.1
72.5°	74.8	94.7	197.4	281.6	311.9
75°	59.8	81.8	181.1	258.3	285.1
77.5°	45.5	70.0	159.8	228.7	251.6
80°	32.5	58.0	132.5	186.5	198.8
82.5°	21.5	42.8	94.5	124.9	130.7
85°	12.3	24.3	50.8	66.4	73.0
87.5°	4.6	8.0	17.8	24.0	25.4
90°	0.4	0.8	3.1	5.3	5.9

(END OF REPORT)