

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: 26978

Luminaire Tested: **R3-WB-2T8-1C-UNV-14-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 26978
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WB-2T8-1C-UNV-14-T1
Description: WITH WHITE INTERIOR AND LINEAR PRISMATIC CURVED PLASTIC LENS WITH
BAFFEL
Light Source: TWO GE 32 WATT T8 LAMPS

F32T8-SPX41-ECO. LUMEN RATING = 2950 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 4165.3 lumens
Efficiency: 70.6%
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.3 / 1.32
Luminous Opening: Rectangular (W 0.79' x L: 3.99' x H: 0')
CIE Type: Direct

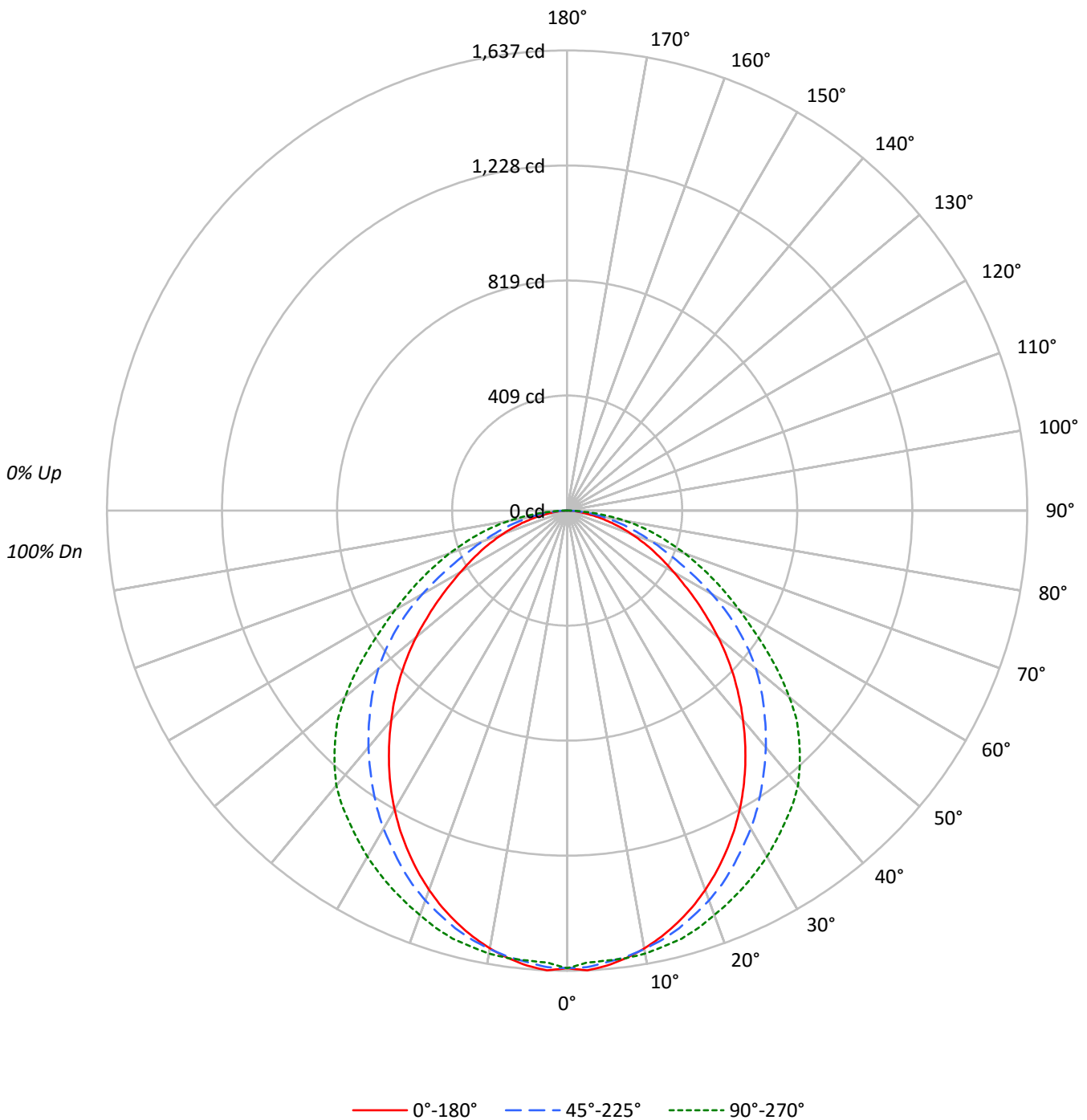
Input Watts (W): 48.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	71
1	77	74	71	68	75	72	70	67	69	67	65	67	65	63	64	63	61	60
2	70	65	60	56	69	63	59	56	61	57	54	59	56	53	57	54	52	50
3	64	57	52	47	63	56	51	47	54	49	46	52	48	45	50	47	44	43
4	59	51	45	40	57	50	44	40	48	43	39	46	42	39	45	41	38	37
5	54	46	39	35	53	45	39	35	43	38	34	42	37	34	41	37	33	32
6	50	41	35	30	49	40	35	30	39	34	30	38	33	30	37	33	30	28
7	47	37	31	27	45	37	31	27	36	30	27	35	30	26	34	29	26	25
8	43	34	28	24	42	34	28	24	33	28	24	32	27	24	31	27	24	22
9	41	31	26	22	40	31	25	22	30	25	22	29	25	21	29	24	21	20
10	38	29	23	20	37	29	23	20	28	23	20	27	23	20	27	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5558	5558	5558
5°	5571	5530	5509
10°	5484	5493	5549
15°	5367	5438	5572
20°	5220	5363	5565
25°	5043	5261	5579
30°	4843	5152	5605
35°	4606	5024	5637
40°	4341	4900	5693
45°	4058	4776	5639
50°	3725	4664	5483
55°	3342	4437	5145
60°	2985	4063	4824
65°	2717	3567	4609
70°	2424	3199	4443
75°	2081	2888	4306
80°	1628	2602	4104
85°	1030	2108	3279



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	153.3	3.7	2.6
10°-20°	434.3	10.4	7.4
20°-30°	645.6	15.5	10.9
30°-40°	760.4	18.3	12.9
40°-50°	767.0	18.4	13.0
50°-60°	646.7	15.5	11.0
60°-70°	448.0	10.8	7.6
70°-80°	246.1	5.9	4.2
80°-90°	63.8	1.5	1.1
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°	1233.3	29.6	20.9
0°-40°	1993.7	47.9	33.8
0°-60°	3407.3	81.8	57.8
0°-90°	4165.3	100.0	70.6
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°	4165.3	100.0	70.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1625	1617	1613	1614	1607	154
15°	1518	1514	1538	1567	1576	427
25°	1338	1350	1396	1453	1481	616
35°	1105	1127	1205	1300	1352	690
45°	840	875	989	1112	1168	647
55°	561	613	745	822	864	504
65°	336	382	441	523	570	334
75°	158	173	219	288	326	168
85°	26	34	54	73	84	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.5	1627.5	1627.5	1627.5	1627.5
2.5°	1637.3	1629.2	1625.9	1622.7	1609.6
5°	1625.2	1616.8	1613.2	1613.9	1607.0
7.5°	1606.3	1595.9	1600.9	1607.5	1605.6
10°	1581.4	1570.6	1584.2	1598.7	1600.2
12.5°	1552.2	1543.7	1563.5	1583.6	1587.7
15°	1518.1	1513.8	1538.3	1566.6	1576.1
17.5°	1479.7	1479.1	1507.1	1543.1	1556.1
20°	1436.5	1440.7	1475.8	1514.5	1531.3
22.5°	1389.0	1396.8	1439.1	1484.9	1506.9
25°	1338.5	1349.5	1396.4	1452.7	1480.7
27.5°	1284.9	1298.0	1350.8	1417.4	1451.4
30°	1228.1	1242.4	1306.5	1380.5	1421.5
32.5°	1167.7	1184.9	1257.8	1341.5	1387.2
35°	1104.9	1126.8	1205.1	1300.4	1352.1
37.5°	1039.8	1066.8	1152.8	1259.3	1317.6
40°	973.8	1004.9	1099.3	1218.2	1277.1
42.5°	907.3	940.8	1044.5	1170.1	1225.5
45°	840.3	875.3	989.0	1112.0	1167.7
47.5°	771.9	809.6	934.8	1050.1	1108.8
50°	701.2	744.5	878.0	985.8	1032.0
52.5°	630.1	678.8	813.6	905.2	950.1
55°	561.3	612.9	745.3	822.2	864.2
57.5°	496.3	550.4	673.6	738.3	780.4
60°	437.1	490.9	594.9	658.8	706.4
62.5°	384.9	434.7	515.7	589.3	637.2
65°	336.3	382.5	441.4	522.9	570.4
67.5°	288.7	331.6	376.8	459.5	505.4
70°	242.8	281.0	320.4	400.2	445.0
72.5°	199.0	227.8	267.2	344.4	383.1
75°	157.7	172.9	218.9	288.3	326.4
77.5°	118.6	126.8	173.7	237.3	269.8
80°	82.8	91.4	132.3	182.9	208.7
82.5°	51.9	61.0	93.1	128.0	146.6
85°	26.3	34.0	53.8	72.9	83.7
87.5°	6.8	10.4	15.5	22.7	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)