

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: 27014

Luminaire Tested: **R3-WB-1T8-1C-UNV-22-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 27014
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WB-1T8-1C-UNV-22-T1
Description: WITH WHITE INTERIOR AND LINEAR PRISMATIC CURVED PLASTIC LENS

Light Source: ONE SYLVANIA 17 WATT T8 LAMP

FO17/835/ECO. LUMEN RATING = 1400 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 1400 (1 lamp)
Luminaire Lumens: 1285.1 lumens
Efficiency: 91.8%
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.45 / 1.48
Luminous Opening: Rectangular (W 1.8' x L: 1.89' x H: 0')
CIE Type: Direct

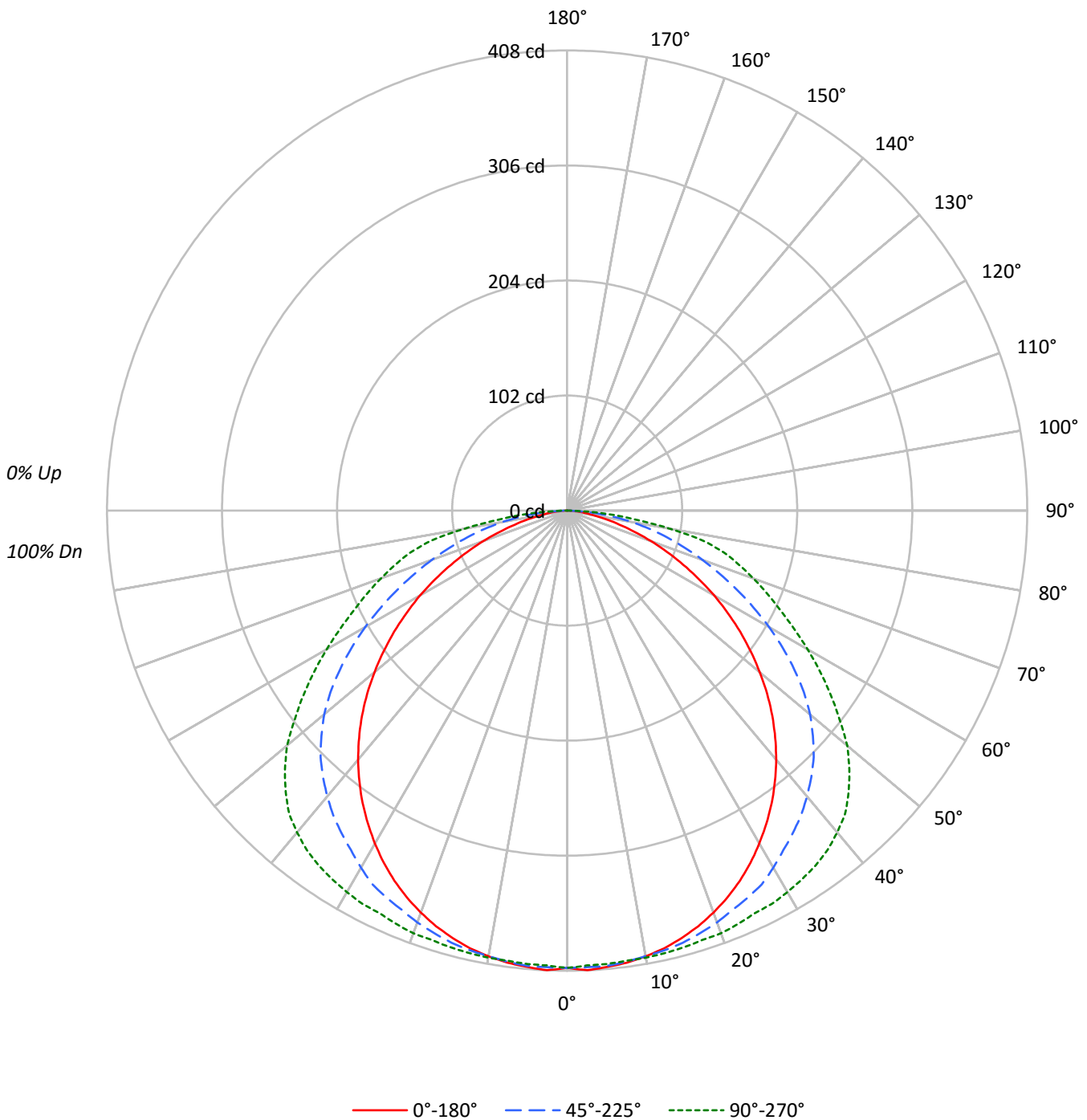
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	102	102	102		98	98	98		94	94	94	92
1	99	95	91	87	97	93	89	86	89	86	83		85	83	80		82	80	78	76
2	90	82	76	70	88	81	75	70	77	72	68		74	70	66		71	68	65	63
3	82	72	64	58	80	71	63	58	68	62	57		65	60	56		63	58	55	53
4	75	64	55	49	73	62	55	49	60	53	48		58	52	47		56	51	47	45
5	69	57	48	42	67	56	48	42	54	47	41		52	46	41		50	45	40	38
6	63	51	42	36	62	50	42	36	48	41	36		47	40	36		45	40	35	33
7	59	46	38	32	57	45	37	32	44	37	32		42	36	31		41	35	31	29
8	55	42	34	28	53	41	34	28	40	33	28		39	33	28		38	32	28	26
9	51	38	31	25	50	38	30	25	37	30	25		36	30	25		35	29	25	23
10	48	35	28	23	46	35	28	23	34	27	23		33	27	23		32	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1283	1283	1283
5°	1290	1287	1282
10°	1289	1289	1293
15°	1285	1299	1313
20°	1277	1308	1343
25°	1265	1322	1375
30°	1245	1336	1427
35°	1222	1348	1484
40°	1191	1367	1539
45°	1151	1384	1580
50°	1097	1384	1596
55°	1033	1358	1575
60°	952	1310	1559
65°	850	1244	1559
70°	730	1179	1624
75°	588	1121	1764
80°	434	1057	1687
85°	309	849	1332



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.5	3.0	2.8
10°-20°	112.0	8.7	8.0
20°-30°	174.6	13.6	12.5
30°-40°	218.9	17.0	15.6
40°-50°	236.3	18.4	16.9
50°-60°	215.2	16.7	15.4
60°-70°	162.8	12.7	11.6
70°-80°	99.4	7.7	7.1
80°-90°	27.4	2.1	2.0
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°	325.2	25.3	23.2
0°-40°	544.0	42.3	38.9
0°-60°	995.5	77.5	71.1
0°-90°	1285.1	100.0	91.8
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°	1285.1	100.0	91.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	406	405	405	404	404	39
15°	392	393	397	400	401	111
25°	362	366	379	390	394	167
35°	316	325	349	374	384	198
45°	257	272	309	342	353	198
55°	187	207	246	275	286	167
65°	114	135	166	195	208	113
75°	48	65	92	125	144	52
85°	8	13	23	34	37	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	405.5	405.5	405.5	405.5	405.5
2.5°	407.9	406.1	405.2	403.9	403.7
5°	406.2	405.1	405.3	404.3	403.5
7.5°	404.3	403.0	403.4	402.6	402.6
10°	401.3	401.4	401.1	402.2	402.5
12.5°	397.5	397.7	399.3	401.2	401.8
15°	392.4	392.8	396.6	399.7	400.8
17.5°	386.4	386.6	392.8	397.4	399.2
20°	379.3	380.6	388.5	395.7	398.9
22.5°	371.4	373.9	383.3	393.3	396.6
25°	362.3	366.4	378.7	389.9	393.8
27.5°	352.1	358.4	373.8	385.8	393.1
30°	340.8	348.2	365.6	383.7	390.6
32.5°	328.9	336.4	356.9	379.3	387.6
35°	316.3	324.7	349.0	374.2	384.1
37.5°	302.7	312.8	340.6	368.8	379.3
40°	288.4	300.1	330.9	361.5	372.5
42.5°	273.1	285.9	320.4	352.2	364.8
45°	257.2	272.2	309.2	342.5	353.0
47.5°	240.5	257.7	295.5	327.9	339.4
50°	222.9	241.6	281.2	312.2	324.2
52.5°	205.2	224.5	264.5	294.6	304.6
55°	187.2	206.7	246.1	275.0	285.5
57.5°	168.7	188.9	226.7	254.3	265.9
60°	150.5	171.0	207.0	234.1	246.4
62.5°	132.0	153.3	186.4	214.3	226.7
65°	113.5	134.6	166.1	195.0	208.2
67.5°	95.8	115.7	146.1	175.7	191.7
70°	78.9	97.9	127.5	158.2	175.6
72.5°	62.6	81.1	109.1	141.5	159.8
75°	48.1	65.4	91.7	125.4	144.3
77.5°	35.0	50.5	74.8	107.3	123.9
80°	23.8	36.6	58.0	83.7	92.6
82.5°	15.4	24.2	39.7	56.6	61.0
85°	8.5	13.1	23.4	34.1	36.7
87.5°	3.1	4.2	8.4	12.4	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)