

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: 23492

Luminaire Tested: **R1-WP-2N5-UNV-14-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23492
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WP-2N5-UNV-14-T1
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS WITH
ROUND PERF
Light Source: TWO SYLVANIA 28 WATT T5 LAMPS
FP28/841. LUMEN RATING = 2600 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3308.0 lumens
Efficiency: 63.6%
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.39
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

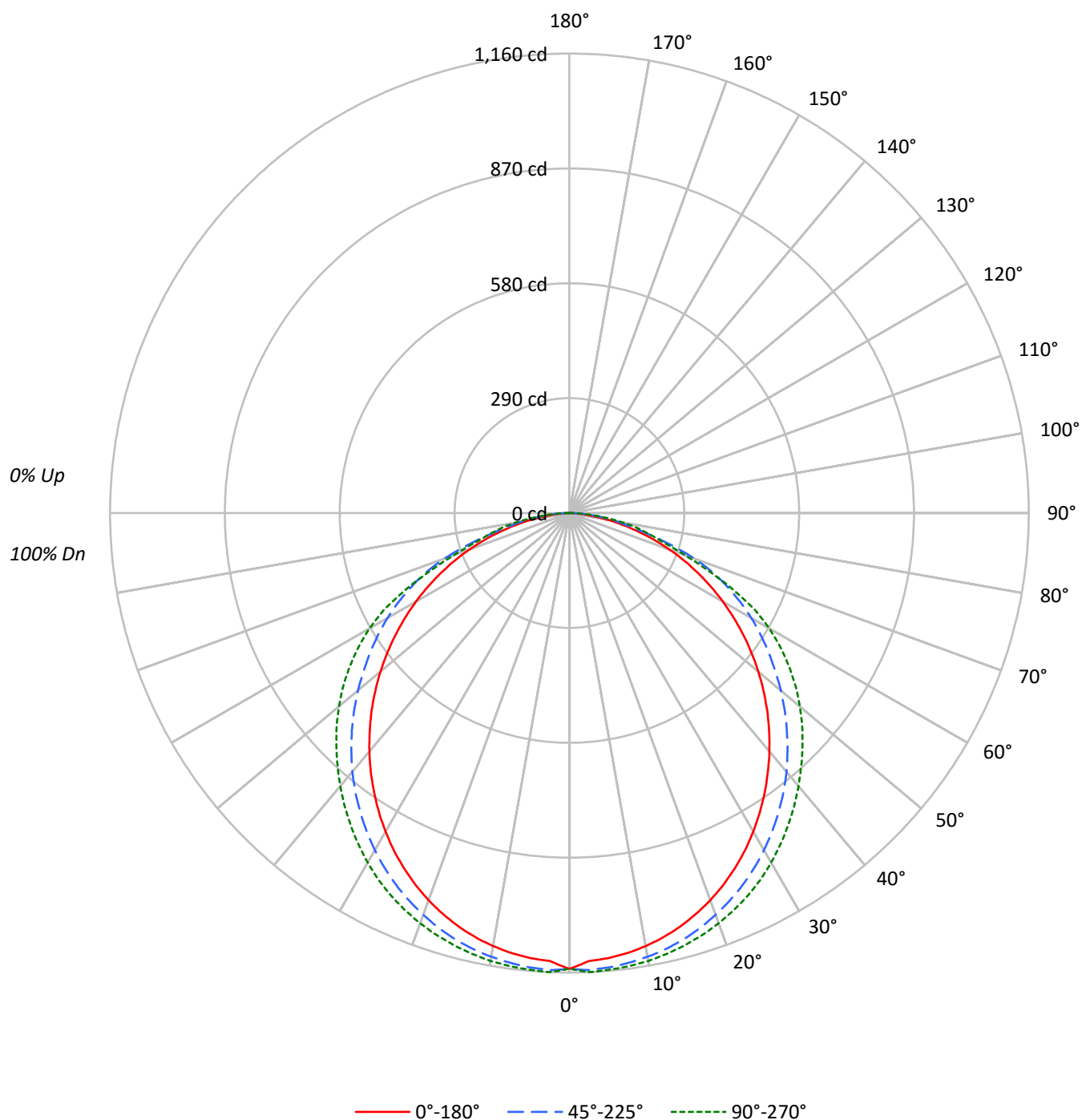
Input Watts (W): 60
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	76	76	76	76	74	74	74	74	71	71	71	68	68	68	65	65	65
1	69	66	63	61	67	65	62	60	62	60	58	59	58	56	57	56	55
2	63	58	53	50	61	56	52	49	54	51	48	52	49	47	50	48	46
3	57	51	45	41	56	49	45	41	48	43	40	46	42	39	44	41	39
4	52	45	39	35	51	44	39	35	42	38	34	41	37	34	39	36	33
5	48	40	34	30	47	39	34	30	38	33	29	37	32	29	35	32	29
6	44	36	30	26	43	35	30	26	34	29	26	33	29	25	32	28	25
7	41	33	27	23	40	32	27	23	31	26	23	30	26	23	29	25	22
8	38	30	24	20	37	29	24	20	28	24	20	28	23	20	27	23	20
9	36	27	22	18	35	27	22	18	26	21	18	25	21	18	25	21	18
10	34	25	20	17	33	25	20	17	24	20	17	24	19	16	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3434	3434	3434
5°	3379	3449	3467
10°	3364	3447	3479
15°	3340	3442	3488
20°	3304	3428	3500
25°	3257	3411	3509
30°	3200	3386	3512
35°	3134	3356	3508
40°	3061	3322	3507
45°	2981	3278	3513
50°	2891	3236	3527
55°	2788	3196	3527
60°	2670	3167	3482
65°	2530	3112	3211
70°	2343	2937	2700
75°	2072	2395	2433
80°	1667	2044	2351
85°	1147	1822	1993



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	109.0	3.3	2.1
10°-20°	312.9	9.5	6.0
20°-30°	475.0	14.4	9.1
30°-40°	572.8	17.3	11.0
40°-50°	595.9	18.0	11.5
50°-60°	545.7	16.5	10.5
60°-70°	416.6	12.6	8.0
70°-80°	221.1	6.7	4.3
80°-90°	59.0	1.8	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°	896.9	27.1	17.2
0°-40°	1469.7	44.4	28.3
0°-60°	2611.3	78.9	50.2
0°-90°	3308.0	100.0	63.6
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°	3308.0	100.0	63.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1128	1136	1151	1156	1157	107
15°	1081	1092	1114	1125	1129	305
25°	989	1004	1036	1056	1066	456
35°	860	879	921	951	963	538
45°	706	728	777	815	832	545
55°	536	561	614	662	678	479
65°	358	387	441	463	455	354
75°	180	212	208	205	211	191
85°	34	40	53	57	58	42
90°	1	3	5	6	7	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.5	1150.5	1150.5	1150.5	1150.5
2.5°	1132.0	1140.2	1154.8	1158.7	1160.1
5°	1127.7	1136.0	1151.3	1155.9	1157.1
7.5°	1120.4	1129.2	1145.2	1151.1	1153.6
10°	1110.0	1119.6	1137.4	1144.8	1148.0
12.5°	1096.9	1107.1	1127.2	1136.2	1139.5
15°	1080.8	1091.6	1113.9	1124.6	1128.9
17.5°	1061.6	1073.3	1097.9	1110.5	1116.8
20°	1040.1	1052.5	1079.3	1094.9	1102.0
22.5°	1016.0	1029.4	1058.8	1076.8	1084.9
25°	989.1	1003.6	1035.7	1056.5	1065.6
27.5°	960.0	975.6	1010.2	1033.5	1043.9
30°	928.6	945.5	982.5	1008.1	1018.9
32.5°	895.3	913.2	952.8	980.3	991.8
35°	860.1	878.9	921.1	950.8	962.7
37.5°	823.5	843.4	888.0	919.6	932.2
40°	785.7	806.1	852.6	886.2	900.0
42.5°	746.6	767.3	815.2	851.3	866.3
45°	706.3	727.5	776.7	815.1	832.3
47.5°	664.8	687.3	737.3	779.1	797.3
50°	622.7	645.7	696.9	742.2	759.6
52.5°	579.6	603.4	655.2	702.6	720.4
55°	535.8	560.7	614.2	661.5	677.8
57.5°	491.8	517.8	572.9	617.7	632.3
60°	447.3	474.5	530.6	571.3	583.3
62.5°	402.8	430.6	486.6	521.3	526.6
65°	358.2	386.7	440.7	462.6	454.7
67.5°	313.3	343.0	391.7	389.5	378.2
70°	268.5	299.5	336.6	316.6	309.4
72.5°	223.6	256.1	271.3	253.5	250.6
75°	179.7	212.5	207.7	204.7	211.0
77.5°	136.8	168.1	155.9	170.3	177.0
80°	97.0	119.5	118.9	134.4	136.8
82.5°	62.9	72.9	87.2	94.3	95.5
85°	33.5	39.5	53.2	56.7	58.2
87.5°	10.7	16.3	23.3	25.8	27.0
90°	1.1	2.7	4.9	6.2	7.2

(END OF REPORT)