

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: 23294

Luminaire Tested: **R1-WB-2N5-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23294
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WB-2N5-14
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH
WHITE BAFFLE
Light Source: TWO SYLVANIA 28 WATT T5 LAMPS

FP28/841. LUMEN RATING = 2600 LMS.

Ballast/Driver: -

Summary

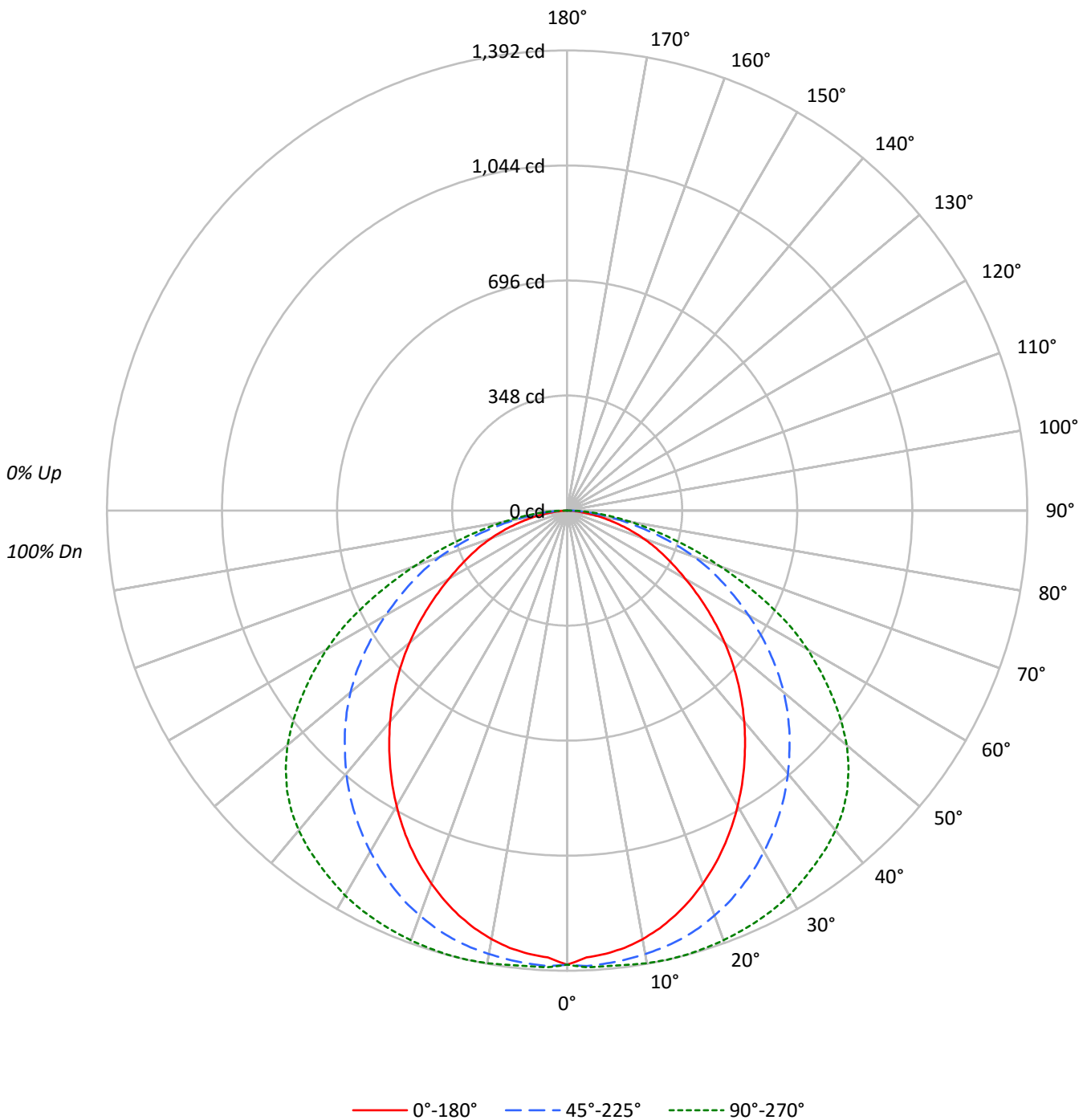
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4034.5 lumens
Efficiency: 77.6%
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.45 / 1.41
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 61
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	92	92	92	92	90	90	90	90	86	86	86	83	83	83	79	79	79	78
1	84	81	77	74	82	79	76	73	76	73	71	73	70	69	70	68	67	65
2	77	70	65	60	75	69	64	60	66	62	58	63	60	57	61	58	56	54
3	70	62	55	50	68	60	54	50	58	53	49	56	51	48	54	50	47	45
4	64	54	48	42	62	53	47	42	51	46	41	50	45	41	48	44	40	39
5	59	49	42	36	57	48	41	36	46	40	36	44	39	35	43	39	35	33
6	54	44	37	32	53	43	36	32	42	36	31	40	35	31	39	34	31	29
7	50	40	33	28	49	39	32	28	38	32	28	37	31	27	36	31	27	26
8	47	36	29	25	45	36	29	25	34	29	25	34	28	24	33	28	24	23
9	44	33	27	22	42	33	26	22	32	26	22	31	26	22	30	25	22	20
10	41	30	24	20	40	30	24	20	29	24	20	29	24	20	28	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4100	4100	4100
5°	4033	4120	4144
10°	3990	4127	4213
15°	3916	4143	4298
20°	3814	4140	4394
25°	3694	4127	4505
30°	3556	4104	4632
35°	3404	4081	4763
40°	3247	4049	4921
45°	3079	4014	5058
50°	2890	3973	5127
55°	2677	3891	5094
60°	2464	3783	5009
65°	2297	3689	4756
70°	2133	3576	4285
75°	1877	3202	3795
80°	1526	2731	3319
85°	997	2407	2818



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	130.3	3.2	2.5
10°-20°	376.3	9.3	7.2
20°-30°	575.3	14.3	11.1
30°-40°	700.3	17.4	13.5
40°-50°	736.3	18.2	14.2
50°-60°	665.6	16.5	12.8
60°-70°	500.5	12.4	9.6
70°-80°	276.6	6.9	5.3
80°-90°	73.5	1.8	1.4
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°	1081.9	26.8	20.8
0°-40°	1782.2	44.2	34.3
0°-60°	3184.0	78.9	61.2
0°-90°	4034.5	100.0	77.6
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°	4034.5	100.0	77.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1346	1355	1375	1382	1383	128
15°	1267	1286	1341	1378	1391	357
25°	1122	1162	1253	1332	1368	516
35°	934	990	1120	1245	1307	584
45°	729	792	951	1116	1198	562
55°	514	576	748	911	979	461
65°	325	365	522	640	673	323
75°	163	199	278	317	329	173
85°	29	39	70	80	82	38
90°	1	3	9	9	11	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1373.6	1373.6	1373.6	1373.6	1373.6
2.5°	1353.2	1362.4	1379.0	1382.3	1382.7
5°	1346.1	1355.4	1375.0	1381.6	1383.0
7.5°	1333.9	1344.2	1369.7	1381.2	1385.8
10°	1316.5	1329.7	1361.8	1382.7	1390.2
12.5°	1294.2	1310.5	1353.1	1381.8	1392.0
15°	1267.2	1286.3	1340.8	1377.5	1391.0
17.5°	1235.8	1258.6	1324.1	1369.1	1387.9
20°	1200.8	1229.0	1303.4	1359.3	1383.3
22.5°	1162.9	1197.2	1281.2	1346.8	1376.1
25°	1121.8	1162.1	1253.2	1332.3	1368.0
27.5°	1078.1	1123.0	1223.7	1315.1	1357.7
30°	1031.8	1080.4	1190.8	1294.7	1344.0
32.5°	983.8	1036.3	1156.8	1271.3	1326.3
35°	934.2	990.3	1120.0	1245.1	1307.1
37.5°	884.1	942.5	1081.1	1216.5	1287.0
40°	833.3	893.2	1039.1	1185.7	1263.0
42.5°	781.7	842.9	995.0	1152.7	1234.2
45°	729.4	791.8	950.9	1115.5	1198.3
47.5°	676.3	739.9	904.6	1072.7	1154.6
50°	622.5	686.3	855.6	1024.2	1104.2
52.5°	568.4	631.3	803.3	970.1	1044.8
55°	514.4	575.6	747.8	910.6	979.0
57.5°	462.3	520.0	691.5	847.0	910.5
60°	412.8	465.4	633.8	781.9	839.2
62.5°	367.3	413.5	576.7	713.3	763.1
65°	325.3	365.3	522.3	639.8	673.4
67.5°	285.2	321.1	468.0	556.3	581.6
70°	244.4	279.5	409.8	470.8	491.0
72.5°	203.3	238.7	345.3	390.6	409.7
75°	162.8	199.4	277.7	316.8	329.1
77.5°	124.4	159.6	215.5	245.3	256.2
80°	88.8	116.9	158.9	185.2	193.1
82.5°	56.4	74.5	110.9	130.3	135.1
85°	29.1	39.1	70.3	79.8	82.3
87.5°	9.8	15.1	34.5	36.1	37.9
90°	1.4	2.8	8.6	9.3	10.7

(END OF REPORT)