

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: 23388

Luminaire Tested: **R2-WB-2N5-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23388
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-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

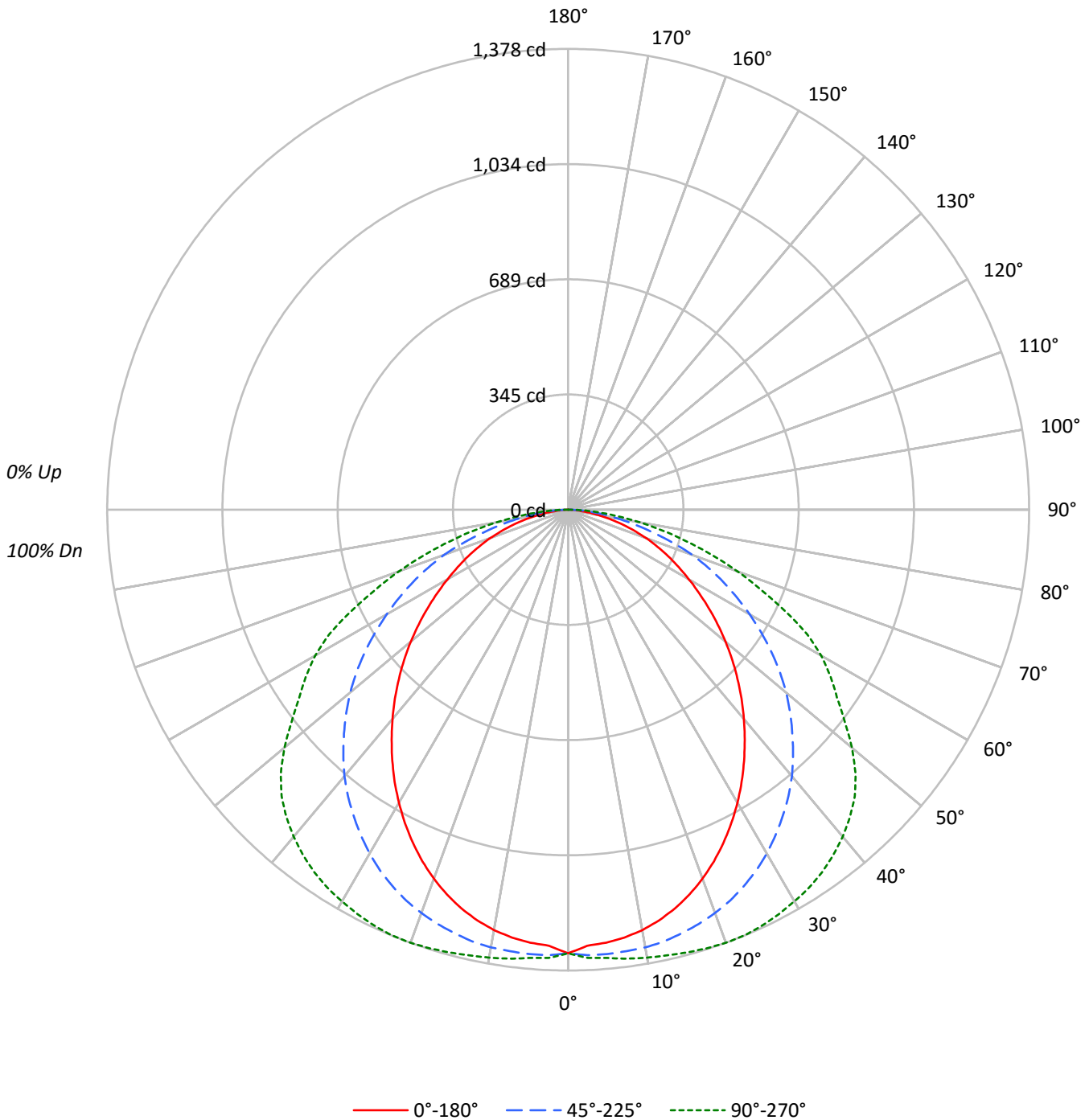
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4018.8 lumens
Efficiency: 77.3%
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.51 / 1.43
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 60
Input Voltage (V): NR
Input Current (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	82	82	82	79	79	79	77
1	84	80	77	74	82	79	75	73	75	73	70	72	70	68	69	68	66	65
2	76	70	65	60	74	68	63	59	66	61	58	63	60	57	61	58	55	54
3	69	61	55	50	68	60	54	49	58	53	48	56	51	48	54	50	47	45
4	64	54	47	42	62	53	47	42	51	46	41	49	44	41	48	43	40	38
5	58	48	41	36	57	47	41	36	46	40	35	44	39	35	43	38	35	33
6	54	43	36	31	52	43	36	31	41	35	31	40	35	31	39	34	30	29
7	50	39	32	28	48	39	32	28	37	32	27	36	31	27	35	31	27	25
8	46	36	29	25	45	35	29	25	34	28	24	33	28	24	32	28	24	23
9	43	33	26	22	42	32	26	22	31	26	22	31	25	22	30	25	22	20
10	41	30	24	20	40	30	24	20	29	24	20	28	23	20	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3959	3959	3959
5°	3894	3997	4031
10°	3868	4028	4121
15°	3813	4052	4235
20°	3729	4076	4377
25°	3618	4091	4519
30°	3487	4092	4661
35°	3339	4074	4821
40°	3184	4054	4972
45°	3022	4000	5113
50°	2851	3949	5142
55°	2667	3860	5107
60°	2487	3739	5217
65°	2331	3612	5040
70°	2159	3441	4693
75°	1899	3010	4237
80°	1540	2537	3740
85°	1024	2192	3092



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	126.6	3.2	2.4
10°-20°	369.0	9.2	7.1
20°-30°	570.2	14.2	11.0
30°-40°	698.8	17.4	13.4
40°-50°	735.1	18.3	14.1
50°-60°	664.5	16.5	12.8
60°-70°	504.8	12.6	9.7
70°-80°	278.6	6.9	5.4
80°-90°	71.1	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°	1065.8	26.5	20.5
0°-40°	1764.6	43.9	33.9
0°-60°	3164.2	78.7	60.9
0°-90°	4018.8	100.0	77.3
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°	4018.8	100.0	77.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1300	1312	1334	1342	1345	123
15°	1234	1258	1311	1352	1370	347
25°	1099	1141	1242	1331	1372	505
35°	916	980	1118	1251	1323	573
45°	716	786	948	1119	1211	552
55°	513	575	742	905	982	459
65°	330	365	512	648	714	327
75°	165	197	261	321	367	175
85°	30	37	64	74	90	39
90°	1	2	5	6	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.5	1326.5	1326.5	1326.5	1326.5
2.5°	1305.1	1315.5	1333.5	1339.0	1341.6
5°	1299.6	1312.0	1334.1	1342.1	1345.4
7.5°	1290.3	1305.7	1331.5	1346.8	1354.2
10°	1276.3	1294.6	1329.2	1350.3	1359.9
12.5°	1257.6	1278.3	1322.5	1351.7	1365.1
15°	1234.1	1258.3	1311.2	1351.9	1370.5
17.5°	1206.1	1235.1	1298.5	1350.1	1375.1
20°	1174.0	1207.3	1283.4	1347.1	1378.2
22.5°	1138.1	1175.3	1265.0	1341.2	1377.8
25°	1098.6	1140.9	1242.2	1331.0	1372.1
27.5°	1056.4	1103.7	1216.8	1314.3	1363.3
30°	1011.8	1064.6	1187.2	1295.6	1352.5
32.5°	965.1	1023.8	1153.8	1274.8	1340.1
35°	916.4	979.9	1118.2	1251.2	1323.1
37.5°	867.1	932.9	1080.8	1224.1	1301.8
40°	817.2	884.5	1040.5	1192.3	1276.2
42.5°	766.5	834.9	994.8	1155.9	1246.9
45°	715.9	785.5	947.7	1119.0	1211.4
47.5°	665.0	735.7	900.0	1076.7	1164.8
50°	614.1	684.4	850.4	1026.0	1107.5
52.5°	563.3	630.3	797.5	968.1	1042.0
55°	512.6	574.7	741.8	904.8	981.5
57.5°	463.6	518.9	684.5	845.1	929.8
60°	416.6	464.1	626.4	787.3	874.0
62.5°	372.3	412.7	568.8	722.2	804.4
65°	330.0	364.9	511.5	648.1	713.6
67.5°	288.9	320.2	453.6	561.3	621.7
70°	247.4	277.6	394.3	479.2	537.8
72.5°	205.5	236.9	326.9	401.5	450.6
75°	164.7	196.6	261.0	321.3	367.4
77.5°	125.6	154.2	200.9	253.2	290.5
80°	89.6	111.9	147.6	187.9	217.6
82.5°	57.3	70.0	103.0	126.5	148.1
85°	29.9	37.0	64.0	73.5	90.3
87.5°	10.1	14.8	26.7	31.7	42.1
90°	1.2	2.4	4.6	6.3	10.1

(END OF REPORT)