

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: 27650

Luminaire Tested:

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 27650
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number:
Description: WITH WHITE INTERIOR AND LINEAR PRISMATIC FROSTED CURVED PLASTIC LENS

Light Source: TWO SYLVANIA 28 WATT T5 LAMPS

FP28/835/ECO. LUMEN RATING = 2600 LMS.

Ballast/Driver: -

Summary

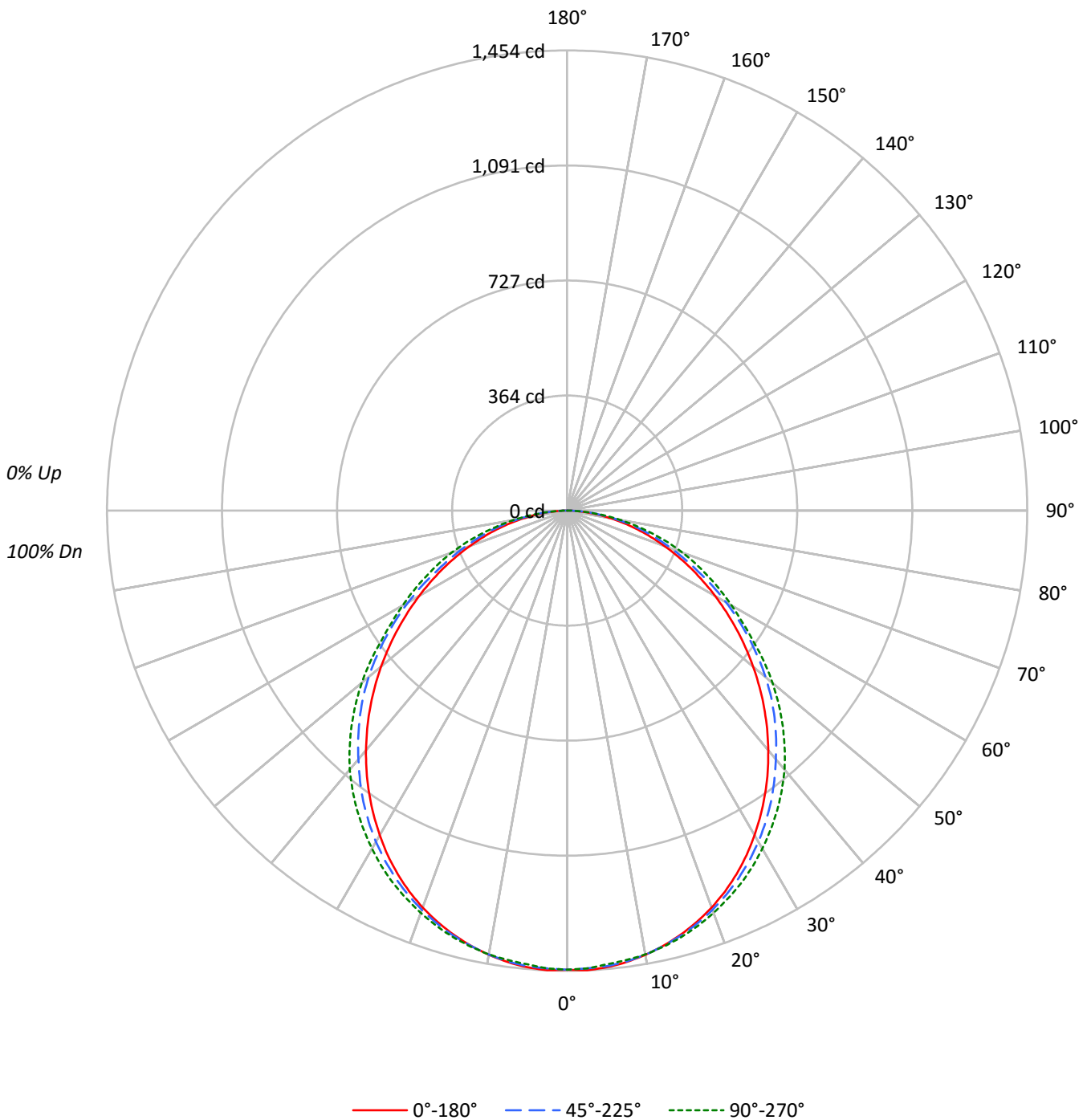
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3957.0 lumens
Efficiency: 76.1%
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.35
Luminous Opening: Rectangular (W 0.88' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 61.7
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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CATALOG NUMBER:

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	91	91	91	91	88	88	88	88	85	85	85	81	81	81	78	78	78	76
1	83	79	76	73	81	77	75	72	74	72	70	71	69	67	69	67	65	64
2	75	69	64	60	73	68	63	59	65	61	58	62	59	56	60	57	55	53
3	69	61	55	50	67	60	54	49	57	52	48	55	51	48	53	50	47	45
4	63	54	47	42	61	53	47	42	51	46	41	49	45	41	48	44	40	39
5	58	48	41	36	56	47	41	36	46	40	36	44	39	35	43	39	35	33
6	54	43	37	32	52	43	36	32	41	36	31	40	35	31	39	34	31	29
7	50	39	33	28	48	39	33	28	38	32	28	37	31	28	36	31	27	26
8	46	36	30	25	45	35	29	25	34	29	25	34	28	25	33	28	25	23
9	43	33	27	23	42	33	27	23	32	26	22	31	26	22	30	26	22	21
10	41	31	25	21	40	30	24	20	29	24	20	29	24	20	28	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4527	4527	4527
5°	4537	4526	4508
10°	4516	4514	4512
15°	4481	4492	4507
20°	4433	4458	4491
25°	4363	4413	4476
30°	4267	4355	4444
35°	4156	4277	4406
40°	4028	4179	4353
45°	3885	4090	4252
50°	3725	3973	4114
55°	3552	3810	3903
60°	3371	3620	3749
65°	3183	3377	3630
70°	2981	3205	3539
75°	2770	3063	3338
80°	2505	2839	3051
85°	2166	2467	2503



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	137.2	3.5	2.6
10°-20°	392.3	9.9	7.5
20°-30°	590.7	14.9	11.4
30°-40°	702.1	17.7	13.5
40°-50°	712.2	18.0	13.7
50°-60°	619.0	15.6	11.9
60°-70°	458.3	11.6	8.8
70°-80°	268.7	6.8	5.2
80°-90°	76.3	1.9	1.5
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°	1120.2	28.3	21.5
0°-40°	1822.4	46.1	35.0
0°-60°	3153.6	79.7	60.6
0°-90°	3957.0	100.0	76.1
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°	3957.0	100.0	76.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1448	1443	1445	1445	1439	138
15°	1387	1385	1390	1397	1395	391
25°	1267	1269	1282	1296	1300	583
35°	1091	1097	1123	1148	1157	682
45°	880	890	927	958	964	679
55°	653	664	700	718	717	584
65°	431	444	457	484	492	427
75°	230	235	254	274	277	243
85°	60	62	69	72	70	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1450.7	1450.7	1450.7	1450.7	1450.7
2.5°	1453.8	1448.3	1448.0	1450.0	1447.7
5°	1448.5	1443.4	1445.1	1445.2	1439.2
7.5°	1439.1	1434.9	1437.1	1436.1	1432.5
10°	1425.3	1421.9	1424.6	1426.1	1424.0
12.5°	1408.2	1404.9	1408.6	1413.8	1411.0
15°	1387.2	1384.8	1390.4	1396.7	1395.1
17.5°	1362.9	1361.4	1368.3	1374.6	1375.5
20°	1334.9	1334.3	1342.6	1351.8	1352.6
22.5°	1302.9	1303.5	1313.9	1325.7	1327.1
25°	1267.3	1268.9	1281.7	1296.4	1300.1
27.5°	1227.8	1230.8	1246.6	1264.8	1268.1
30°	1184.3	1189.3	1208.7	1228.5	1233.3
32.5°	1138.8	1144.6	1166.9	1189.3	1196.3
35°	1091.1	1097.3	1122.7	1148.5	1156.7
37.5°	1041.0	1047.5	1075.2	1104.8	1113.9
40°	988.9	995.9	1026.0	1061.1	1068.6
42.5°	935.0	943.0	977.5	1011.8	1017.7
45°	880.3	889.8	926.8	958.3	963.5
47.5°	824.1	834.6	874.4	902.1	907.1
50°	767.3	778.4	818.4	843.5	847.4
52.5°	710.0	721.4	760.1	782.2	784.7
55°	653.0	664.4	700.3	717.8	717.4
57.5°	596.1	608.1	640.5	651.4	656.3
60°	540.1	552.9	580.1	592.1	600.8
62.5°	485.1	498.4	519.3	538.1	546.3
65°	431.1	444.1	457.4	484.3	491.6
67.5°	378.3	389.5	402.9	430.4	439.6
70°	326.7	336.4	351.3	378.9	387.9
72.5°	277.2	285.3	301.4	327.7	333.3
75°	229.8	234.7	254.1	273.9	276.9
77.5°	183.3	186.2	206.3	220.6	222.1
80°	139.4	141.9	158.0	169.6	169.8
82.5°	98.6	100.9	112.3	120.5	119.4
85°	60.5	61.9	68.9	72.0	69.9
87.5°	24.7	25.1	26.3	24.3	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)