

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: CTL58823

Luminaire Tested: **NB-SW-1T5-DL7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58823
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T5-DL7
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & DOWNLIGHT KIT

Light Source: 54 WATT T5 LAMP
FP54T5/835HO. LUMEN RATING = 5000 LMS.
Ballast/Driver: -

Summary

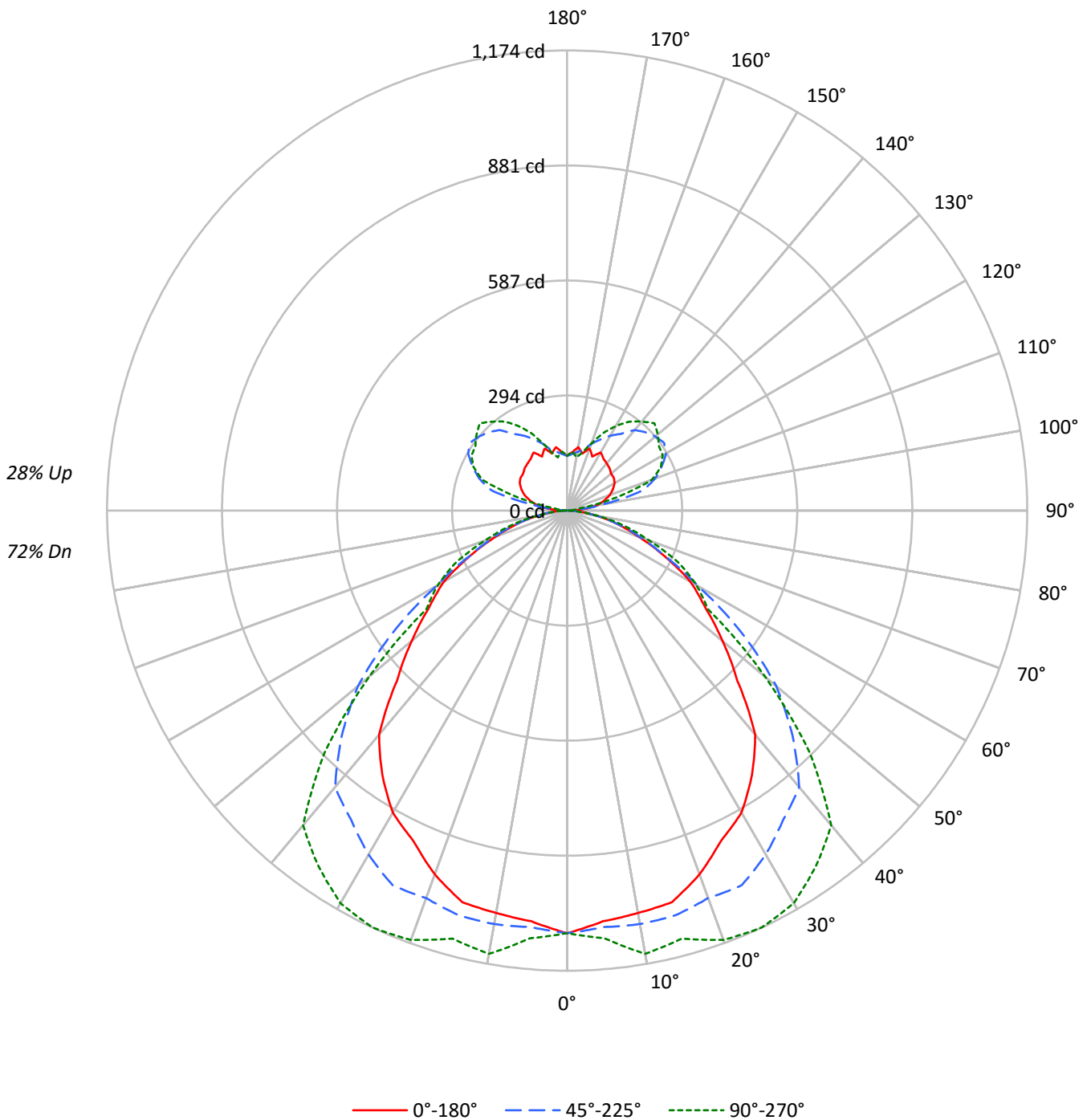
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 4190.2 lumens
Efficiency: 83.8%
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.53 / 1.46
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 59
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	94	94	94	94	89	89	89	89	80	80	80	72	72	72	64	64	64	60
1	86	83	80	77	82	79	76	73	71	69	67	64	62	61	57	56	55	52
2	79	73	68	63	75	69	65	61	63	59	56	56	54	51	51	49	47	44
3	72	64	58	53	68	61	56	51	55	51	47	50	47	44	45	42	40	37
4	66	57	50	45	63	54	48	44	49	44	41	45	41	38	41	37	35	32
5	61	51	44	39	58	49	42	38	44	39	35	40	36	33	37	33	30	28
6	56	46	39	34	53	44	37	33	40	35	31	37	32	29	33	30	27	25
7	52	42	35	30	49	40	33	29	36	31	27	33	29	25	30	27	24	22
8	48	38	31	27	46	36	30	26	33	28	24	30	26	23	28	24	21	19
9	45	35	28	24	43	33	27	23	31	25	22	28	24	20	26	22	19	18
10	42	32	26	21	40	31	25	21	28	23	20	26	22	19	24	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3869	3869	3869
5°	3769	3753	3838
10°	3758	3727	3960
15°	3781	3704	3868
20°	3690	3660	3987
25°	3579	3711	4045
30°	3563	3635	4045
35°	3457	3548	3962
40°	3329	3521	3872
45°	2941	3254	3371
50°	2694	2944	2665
55°	2473	2456	1882
60°	2361	1890	1761
65°	2047	1479	1576
70°	1732	1200	1237
75°	1495	931	951
80°	1163	626	603
85°	865	298	231



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	103.6	2.5	2.1
10°-20°	305.4	7.3	6.1
20°-30°	485.9	11.6	9.7
30°-40°	605.3	14.4	12.1
40°-50°	599.6	14.3	12.0
50°-60°	445.1	10.6	8.9
60°-70°	288.9	6.9	5.8
70°-80°	148.4	3.5	3.0
80°-90°	38.3	0.9	0.8
90°-100°	38.6	0.9	0.8
100°-110°	164.4	3.9	3.3
110°-120°	235.5	5.6	4.7
120°-130°	234.0	5.6	4.7
130°-140°	199.7	4.8	4.0
140°-150°	145.7	3.5	2.9
150°-160°	91.2	2.2	1.8
160°-170°	46.4	1.1	0.9
170°-180°	14.1	0.3	0.3
0°-30°	894.9	21.4	17.9
0°-40°	1500.2	35.8	30.0
0°-60°	2544.8	60.7	50.9
0°-90°	3020.5	72.1	60.4
90°-120°	438.5	10.5	8.8
90°-150°	1017.9	24.3	20.4
90°-180°	1170.0	27.9	23.4
0°-180°	4190.2	100.0	83.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1052	1109	1066	1092	1095	100
15°	1034	1058	1069	1100	1130	290
25°	929	984	1055	1129	1174	431
35°	822	876	962	1079	1107	514
45°	614	718	813	868	876	481
55°	429	492	543	479	438	389
65°	272	287	274	303	313	272
75°	132	129	134	146	150	140
85°	35	33	29	27	26	38
90°	5	3	2	1	2	12
95°	43	44	24	16	14	41
105°	97	166	200	169	130	102
115°	129	223	266	274	263	127
125°	145	220	302	314	286	129
135°	153	198	283	321	315	118
145°	162	190	238	278	277	102
155°	152	168	200	232	218	74
165°	150	162	159	163	154	45
175°	150	138	145	153	151	15
180°	139	139	139	139	139	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.2	1078.2	1078.2	1078.2	1078.2
5°	1051.8	1108.6	1066.5	1092.2	1095.4
10°	1042.4	1058.5	1071.3	1120.9	1148.2
15°	1034.2	1058.0	1068.8	1099.7	1130.4
20°	987.4	1017.2	1052.2	1139.9	1165.7
25°	929.2	983.6	1054.6	1129.1	1173.8
30°	889.7	932.6	1013.3	1121.8	1156.4
35°	822.4	876.5	962.0	1078.6	1106.9
40°	746.5	793.1	921.0	981.6	1048.2
45°	614.4	718.2	813.2	868.4	876.5
50°	517.1	596.3	696.0	669.7	659.2
55°	429.1	492.5	542.9	479.1	438.0
60°	363.1	399.9	385.7	364.9	381.2
65°	272.1	287.1	274.3	302.9	312.8
70°	192.3	202.2	198.7	227.4	221.3
75°	131.9	128.9	134.3	146.2	150.4
80°	75.4	79.1	76.4	80.0	82.1
85°	35.4	32.8	29.4	26.9	26.1
90°	4.7	2.7	1.9	1.0	1.6
95°	43.1	44.1	24.2	15.8	13.8
100°	77.2	120.8	96.8	61.0	32.9
105°	96.8	165.9	199.9	168.8	129.7
110°	115.6	199.9	238.6	252.2	230.2
115°	128.8	222.6	265.9	273.8	263.4
120°	139.6	222.6	291.5	293.4	281.4
125°	145.4	220.3	301.7	313.8	285.8
130°	146.3	214.5	293.6	322.0	301.8
135°	153.0	198.5	282.6	321.3	314.8
140°	157.0	192.5	267.9	309.1	296.2
145°	161.5	190.3	238.4	278.5	276.9
150°	171.3	176.8	220.7	245.7	248.9
155°	151.6	168.3	199.9	231.8	218.1
160°	168.3	165.3	181.1	195.7	182.6
165°	150.5	162.2	159.4	162.7	154.0
170°	164.3	150.1	152.0	159.9	137.8
175°	149.5	138.0	144.6	152.9	151.0
180°	139.4	139.4	139.4	139.4	139.4

(END OF REPORT)