

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: CTL58846

Luminaire Tested: **NB-SW-2T8-DL7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58846
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-2T8-DL7
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & DOWNLIGHT KIT

Light Source: 32 WATT T8 LAMP
FP32T8/835. LUMEN RATING = 2900 LMS.
Ballast/Driver: -

Summary

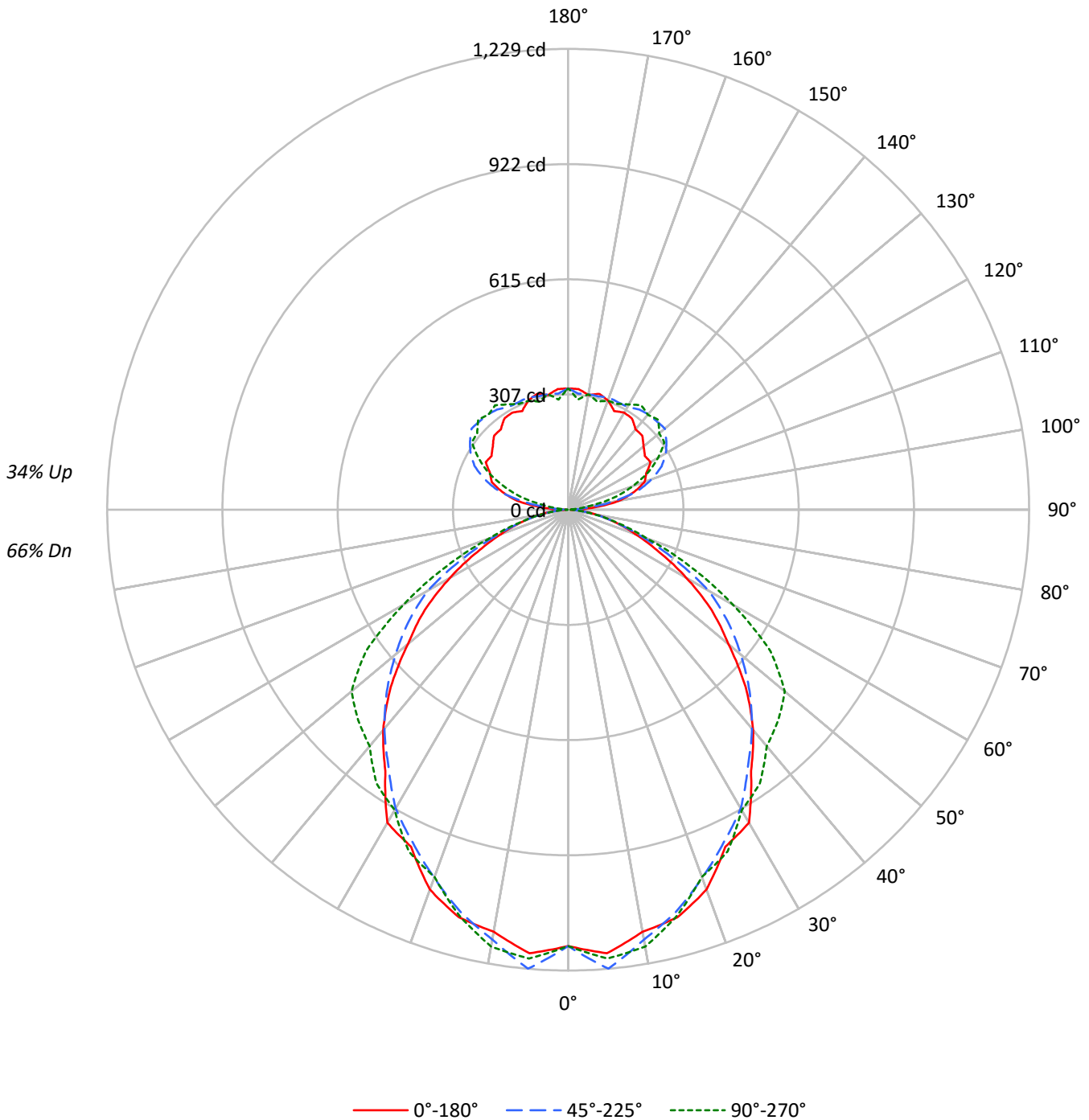
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 4414.3 lumens
Efficiency: 76.1%
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 78
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	85	85	85	85	80	80	80	80	70	70	70	62	62	62	54	54	54	51
1	78	74	71	69	73	70	67	65	62	60	58	55	54	52	48	47	46	43
2	71	65	60	56	66	61	57	54	55	52	49	49	46	44	43	41	39	36
3	65	57	52	47	61	54	49	45	48	44	41	43	40	37	38	36	34	31
4	59	51	45	40	56	48	43	38	43	39	35	38	35	32	34	31	29	27
5	54	45	39	35	51	43	37	33	39	34	31	35	31	28	31	28	25	23
6	50	41	35	30	47	39	33	29	35	30	27	31	27	25	28	25	22	20
7	47	37	31	26	44	35	30	26	32	27	24	29	25	22	25	22	20	18
8	43	34	28	24	41	32	27	23	29	24	21	26	22	19	23	20	18	16
9	40	31	25	21	38	29	24	20	27	22	19	24	20	18	22	19	16	15
10	38	28	23	19	36	27	22	18	25	20	17	22	19	16	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4175	4175	4175
5°	4254	4324	4211
10°	4120	4049	4080
15°	4115	3847	3836
20°	4029	3635	3565
25°	3819	3448	3465
30°	3861	3301	3236
35°	3573	3080	3190
40°	3422	2914	3041
45°	3203	2735	3048
50°	2905	2541	3048
55°	2692	2348	2830
60°	2365	2116	2346
65°	2016	1673	1807
70°	1713	1242	1244
75°	1456	889	858
80°	1203	607	525
85°	799	276	205



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	113.2	2.6	2.0
10°-20°	315.4	7.1	5.4
20°-30°	458.2	10.4	7.9
30°-40°	533.5	12.1	9.2
40°-50°	543.6	12.3	9.4
50°-60°	477.8	10.8	8.2
60°-70°	311.2	7.0	5.4
70°-80°	142.6	3.2	2.5
80°-90°	35.7	0.8	0.6
90°-100°	54.2	1.2	0.9
100°-110°	185.7	4.2	3.2
110°-120°	257.5	5.8	4.4
120°-130°	274.1	6.2	4.7
130°-140°	247.9	5.6	4.3
140°-150°	201.0	4.6	3.5
150°-160°	144.1	3.3	2.5
160°-170°	88.7	2.0	1.5
170°-180°	29.8	0.7	0.5
0°-30°	886.8	20.1	15.3
0°-40°	1420.4	32.2	24.5
0°-60°	2441.8	55.3	42.1
0°-90°	2931.3	66.4	50.5
90°-120°	497.4	11.3	8.6
90°-150°	1220.5	27.6	21.0
90°-180°	1483.0	33.6	25.6
0°-180°	4414.3	100.0	76.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1187	1183	1229	1202	1202	111
15°	1126	1114	1110	1123	1121	316
25°	992	987	980	1000	1006	465
35°	850	845	835	856	891	537
45°	669	665	684	742	792	514
55°	467	458	519	620	659	415
65°	268	280	310	344	359	270
75°	128	127	128	133	136	139
85°	33	30	27	22	23	37
90°	6	4	2	2	1	16
95°	70	58	38	23	15	72
105°	181	233	190	143	129	190
115°	229	288	275	246	235	230
125°	249	308	319	324	313	228
135°	279	305	334	342	339	213
145°	297	310	327	327	340	184
155°	290	312	316	302	311	137
165°	320	314	313	320	298	89
175°	323	308	311	308	295	30
180°	323	323	323	323	323	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.7	1163.7	1163.7	1163.7	1163.7
5°	1187.4	1182.6	1228.7	1202.1	1201.7
10°	1142.9	1186.5	1164.0	1175.2	1183.0
15°	1125.5	1113.8	1110.1	1122.9	1121.2
20°	1078.1	1066.7	1044.9	1075.3	1042.2
25°	991.5	987.1	979.9	999.5	1005.7
30°	964.1	930.8	920.0	916.3	925.1
35°	849.9	844.6	835.2	855.8	891.2
40°	767.4	758.0	762.2	787.6	823.3
45°	669.1	665.4	683.5	741.6	792.4
50°	557.5	562.2	600.6	693.0	753.8
55°	467.1	457.5	519.0	619.5	658.8
60°	363.7	363.8	431.8	485.1	507.8
65°	267.9	279.8	310.3	343.6	358.6
70°	190.1	192.5	205.6	219.3	222.7
75°	128.5	126.8	128.3	133.0	135.6
80°	78.0	75.8	74.0	74.8	71.4
85°	32.7	29.5	27.3	22.3	23.2
90°	6.4	3.7	1.6	1.7	1.4
95°	69.8	58.0	38.4	23.3	14.6
100°	138.5	162.3	118.1	82.4	60.6
105°	181.1	232.6	190.0	143.2	129.1
110°	216.9	266.4	236.5	206.3	182.5
115°	229.4	288.0	274.9	246.3	234.8
120°	253.7	304.8	300.7	294.2	276.6
125°	249.4	307.9	319.3	324.4	313.2
130°	262.4	305.3	336.3	329.6	316.6
135°	279.3	304.9	333.6	342.1	339.1
140°	279.5	309.4	331.9	336.5	330.5
145°	296.6	310.2	327.0	327.2	339.8
150°	298.8	320.8	315.9	322.8	323.8
155°	290.1	311.8	315.7	302.5	311.1
160°	309.8	314.8	318.0	303.5	308.8
165°	319.9	314.2	312.8	320.4	298.2
170°	310.2	321.2	312.4	302.1	312.4
175°	322.8	308.2	310.6	307.6	294.6
180°	323.2	323.2	323.2	323.2	323.2

(END OF REPORT)