

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: CTL58825

Luminaire Tested: **NB-SW-1T8-DL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58825
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T8-DL1
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

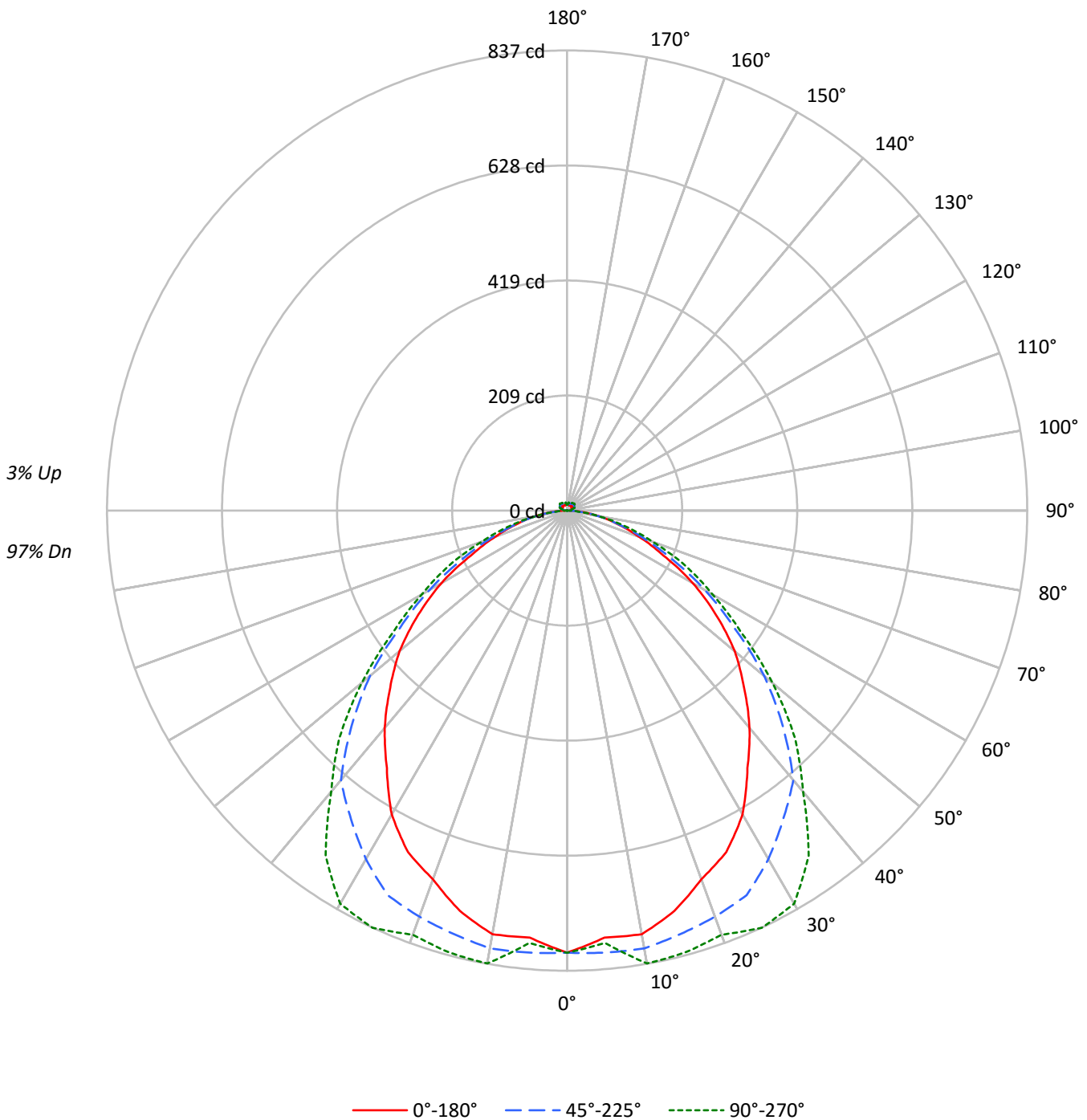
Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 2247.4 lumens
Efficiency: 77.5%
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.44 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Direct

Input Watts (W): 39
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										
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	50	30	10	50	30	10	0														
RCR																																						
0	92	92	92	92	89	89	89	89	85	85	85	81	81	81	77	77	77	75						75														
1	84	81	78	75	82	79	76	74	75	73	71	72	70	68	69	67	66	64						64														
2	77	71	66	62	75	70	65	61	66	63	59	64	60	58	61	58	56	54						54														
3	71	63	57	52	69	62	56	52	59	54	50	56	52	49	54	51	48	46						46														
4	65	56	50	45	63	55	49	44	53	47	43	51	46	42	49	45	42	40						40														
5	60	50	44	39	58	49	43	38	47	42	38	46	41	37	44	40	36	35						35														
6	55	45	39	34	54	44	38	34	43	37	33	41	36	33	40	36	32	31						31														
7	51	41	35	30	50	40	34	30	39	33	29	38	33	29	36	32	29	27						27														
8	48	38	31	27	46	37	31	27	36	30	26	35	30	26	33	29	26	24						24														
9	45	34	28	24	43	34	28	24	33	27	24	32	27	23	31	26	23	22						22														
10	42	32	26	22	41	31	26	22	30	25	22	30	25	21	29	24	21	20						20														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2885	2885	2885
5°	2793	2840	2766
10°	2821	2812	2885
15°	2757	2763	2847
20°	2667	2734	2808
25°	2639	2716	2885
30°	2556	2626	2888
35°	2404	2527	2742
40°	2302	2447	2466
45°	2179	2219	2255
50°	2073	1981	1972
55°	1903	1676	1662
60°	1718	1419	1410
65°	1454	1140	1197
70°	1247	896	922
75°	1075	668	684
80°	887	461	427
85°	635	208	174



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	77.0	3.4	2.7
10°-20°	225.7	10.0	7.8
20°-30°	351.9	15.7	12.1
30°-40°	423.6	18.8	14.6
40°-50°	414.6	18.5	14.3
50°-60°	331.3	14.7	11.4
60°-70°	215.6	9.6	7.4
70°-80°	107.1	4.8	3.7
80°-90°	27.5	1.2	0.9
90°-100°	4.2	0.2	0.1
100°-110°	10.2	0.5	0.4
110°-120°	13.3	0.6	0.5
120°-130°	13.2	0.6	0.5
130°-140°	11.7	0.5	0.4
140°-150°	9.2	0.4	0.3
150°-160°	6.4	0.3	0.2
160°-170°	3.6	0.2	0.1
170°-180°	1.2	0.1	0.0
0°-30°	654.6	29.1	22.6
0°-40°	1078.2	48.0	37.2
0°-60°	1824.2	81.2	62.9
0°-90°	2174.3	96.8	75.0
90°-120°	27.7	1.2	1.0
90°-150°	61.8	2.8	2.1
90°-180°	73.0	3.2	2.5
0°-180°	2247.4	100.0	77.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	780	788	807	837	789	75
15°	754	773	797	826	832	212
25°	685	715	772	812	837	314
35°	572	622	685	737	766	360
45°	455	511	555	566	586	352
55°	330	366	371	377	387	296
65°	193	207	212	228	238	195
75°	95	98	96	101	108	102
85°	26	23	20	19	20	28
90°	4	1	1	0	0	6
95°	8	6	3	1	1	6
105°	8	12	10	9	9	9
115°	10	12	15	15	16	9
125°	11	12	16	17	17	9
135°	12	12	16	18	18	9
145°	11	13	15	17	16	7
155°	10	14	14	16	14	5
165°	10	12	12	13	14	3
175°	11	14	11	12	12	1
180°	11	11	11	11	11	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.2	804.2	804.2	804.2	804.2
5°	779.6	787.6	807.0	837.4	789.4
10°	782.4	796.2	808.4	832.9	836.4
15°	754.0	772.6	797.4	826.0	831.9
20°	713.7	752.3	786.0	827.2	820.9
25°	685.3	714.8	771.9	811.8	837.3
30°	638.3	676.2	732.0	789.1	825.5
35°	571.8	622.5	685.2	736.7	766.0
40°	516.2	567.0	640.0	663.4	667.5
45°	455.2	510.8	554.6	566.5	586.3
50°	397.9	442.3	468.2	473.5	487.7
55°	330.3	365.5	370.6	376.7	386.8
60°	264.3	285.1	289.6	300.5	305.1
65°	193.2	207.4	211.5	227.7	237.6
70°	138.4	144.4	148.3	158.3	165.0
75°	94.9	97.5	96.4	101.1	108.2
80°	57.5	57.0	56.2	57.6	58.1
85°	26.0	23.3	20.5	18.9	19.6
90°	3.8	1.3	0.6	0.3	0.2
95°	8.4	6.1	2.7	1.2	1.1
100°	8.0	9.6	7.2	5.0	4.1
105°	8.2	11.5	10.0	9.1	9.4
110°	8.0	11.5	12.4	12.4	14.0
115°	9.7	11.8	14.6	15.4	15.5
120°	10.5	12.0	15.4	17.2	17.3
125°	11.0	12.5	15.5	16.8	17.0
130°	9.3	12.1	16.4	17.1	17.6
135°	12.0	12.0	16.3	18.2	18.1
140°	11.4	13.6	15.3	17.5	17.1
145°	11.2	13.1	15.4	16.9	16.5
150°	10.8	11.8	15.3	15.2	16.1
155°	10.5	14.0	14.4	15.6	13.9
160°	11.2	12.6	12.5	13.6	14.2
165°	10.0	12.5	12.3	13.4	13.6
170°	12.7	12.5	14.3	13.3	14.8
175°	11.3	14.2	11.4	11.7	11.7
180°	10.8	10.8	10.8	10.8	10.8

(END OF REPORT)