

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: CTL58878

Luminaire Tested: **NB-SW-3T8-DL5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58878
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-DL5
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

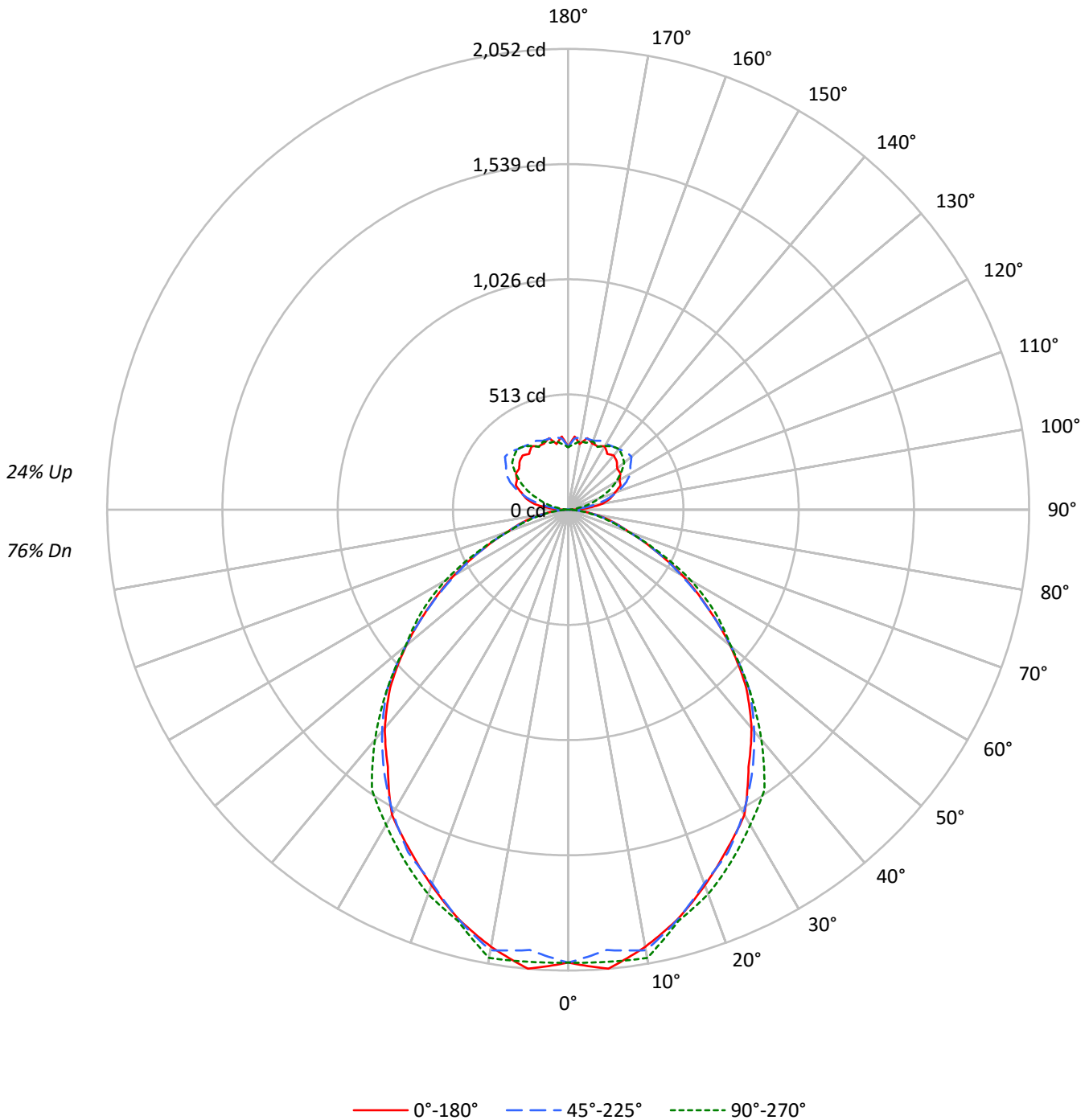
Lumens per Lamp: 2950 (3 lamps)
Luminaire Lumens: 6178.2 lumens
Efficiency: 69.8%
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.2 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 117
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	79	79	79	79	75	75	75	75	68	68	68		62	62	62		56	56	56	53
1	73	70	67	65	69	67	64	62	61	59	57		55	54	52		50	49	48	45
2	67	61	57	54	63	59	55	52	54	51	48		49	46	44		44	43	41	39
3	61	54	49	45	58	52	47	44	48	44	41		43	41	38		40	37	35	33
4	56	48	43	39	53	46	41	37	43	38	35		39	36	33		36	33	31	29
5	52	43	38	33	49	42	36	33	38	34	31		35	32	29		32	29	27	25
6	48	39	33	29	45	38	32	29	35	30	27		32	28	25		29	26	24	22
7	44	36	30	26	42	34	29	25	32	27	24		29	25	23		27	24	21	20
8	41	32	27	23	39	31	26	23	29	25	21		27	23	20		25	22	19	18
9	39	30	24	21	37	29	24	20	27	22	19		25	21	18		23	20	17	16
10	36	27	22	19	34	27	22	18	25	20	18		23	19	17		21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7236	7236	7236
5°	7350	6927	7080
10°	7126	6929	6989
15°	6896	6543	6485
20°	6650	6157	6232
25°	6434	5924	5940
30°	6283	5596	5669
35°	5882	5265	5453
40°	5662	4926	4943
45°	5362	4573	4400
50°	4906	3996	3822
55°	4353	3405	3434
60°	3828	2833	2917
65°	3172	2288	2231
70°	2560	1721	1560
75°	2295	1338	1154
80°	1814	914	761
85°	1308	425	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	191.3	3.1	2.2
10°-20°	533.5	8.6	6.0
20°-30°	782.3	12.7	8.8
30°-40°	908.9	14.7	10.3
40°-50°	870.8	14.1	9.8
50°-60°	688.7	11.1	7.8
60°-70°	429.6	7.0	4.9
70°-80°	207.5	3.4	2.3
80°-90°	54.2	0.9	0.6
90°-100°	53.2	0.9	0.6
100°-110°	176.4	2.9	2.0
110°-120°	254.6	4.1	2.9
120°-130°	281.0	4.5	3.2
130°-140°	263.1	4.3	3.0
140°-150°	211.5	3.4	2.4
150°-160°	151.1	2.4	1.7
160°-170°	91.3	1.5	1.0
170°-180°	29.3	0.5	0.3
0°-30°	1507.0	24.4	17.0
0°-40°	2415.9	39.1	27.3
0°-60°	3975.4	64.3	44.9
0°-90°	4666.7	75.5	52.7
90°-120°	484.2	7.8	5.5
90°-150°	1239.8	20.1	14.0
90°-180°	1512.0	24.5	17.1
0°-180°	6178.2	100.0	69.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2017	2017	2017	2017	2017	
5°	2052	1994	1968	2080	2021	193
15°	1886	1864	1888	1918	1895	531
25°	1670	1719	1684	1693	1724	772
35°	1399	1455	1428	1484	1523	882
45°	1120	1114	1143	1144	1144	859
55°	755	777	753	786	799	680
65°	422	420	424	430	443	424
75°	202	196	193	187	182	213
85°	54	45	42	35	37	58
90°	11	4	2	2	1	22
95°	85	60	32	18	14	83
105°	194	225	177	130	101	202
115°	257	297	282	232	199	248
125°	283	324	337	312	287	250
135°	305	322	365	360	340	234
145°	303	324	344	354	343	196
155°	311	327	338	324	309	146
165°	329	324	327	322	308	90
175°	327	308	318	294	293	30
180°	278	278	278	278	278	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2016.8	2016.8	2016.8	2016.8	2016.8
5°	2051.5	1993.7	1968.4	2079.5	2020.8
10°	1976.5	1947.8	1991.8	1971.9	2026.4
15°	1886.4	1863.7	1888.1	1918.1	1895.2
20°	1779.5	1817.7	1769.9	1808.8	1822.0
25°	1670.5	1719.2	1683.6	1693.3	1723.9
30°	1568.9	1562.1	1559.7	1620.6	1620.5
35°	1399.3	1454.9	1427.8	1484.0	1523.2
40°	1269.5	1295.4	1288.3	1337.3	1338.2
45°	1119.9	1113.8	1142.8	1144.0	1144.0
50°	941.6	941.6	944.7	934.1	945.3
55°	755.4	777.3	752.8	785.5	799.4
60°	588.8	587.8	578.2	599.4	631.4
65°	421.6	419.6	424.5	430.2	442.8
70°	284.2	294.6	284.9	299.4	279.1
75°	202.5	196.3	193.1	186.9	182.5
80°	117.6	119.3	111.5	106.8	103.5
85°	53.5	45.2	42.0	34.7	36.9
90°	11.1	4.4	2.1	1.5	0.9
95°	84.8	60.0	32.4	18.2	13.7
100°	154.5	160.2	111.7	74.7	49.8
105°	193.6	225.4	177.3	129.8	100.7
110°	221.0	269.7	231.5	180.7	144.2
115°	257.2	296.6	281.9	231.6	198.9
120°	263.5	318.2	319.6	277.3	245.0
125°	283.4	323.6	337.2	312.0	287.3
130°	284.4	333.1	367.1	326.0	325.5
135°	305.3	322.3	364.6	359.5	340.2
140°	315.3	325.6	350.8	357.3	352.3
145°	303.0	324.2	344.2	353.6	343.1
150°	325.9	322.4	337.6	339.2	327.7
155°	311.0	327.0	338.3	323.6	308.7
160°	313.8	327.9	326.6	325.1	323.6
165°	329.4	323.7	327.2	321.6	308.5
170°	296.9	317.1	328.2	318.5	309.3
175°	327.2	308.4	317.6	294.0	292.7
180°	278.2	278.2	278.2	278.2	278.2

(END OF REPORT)