

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: CTL58842

Luminaire Tested: **NB-SW-2T8-DL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58842
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-2T8-DL2
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

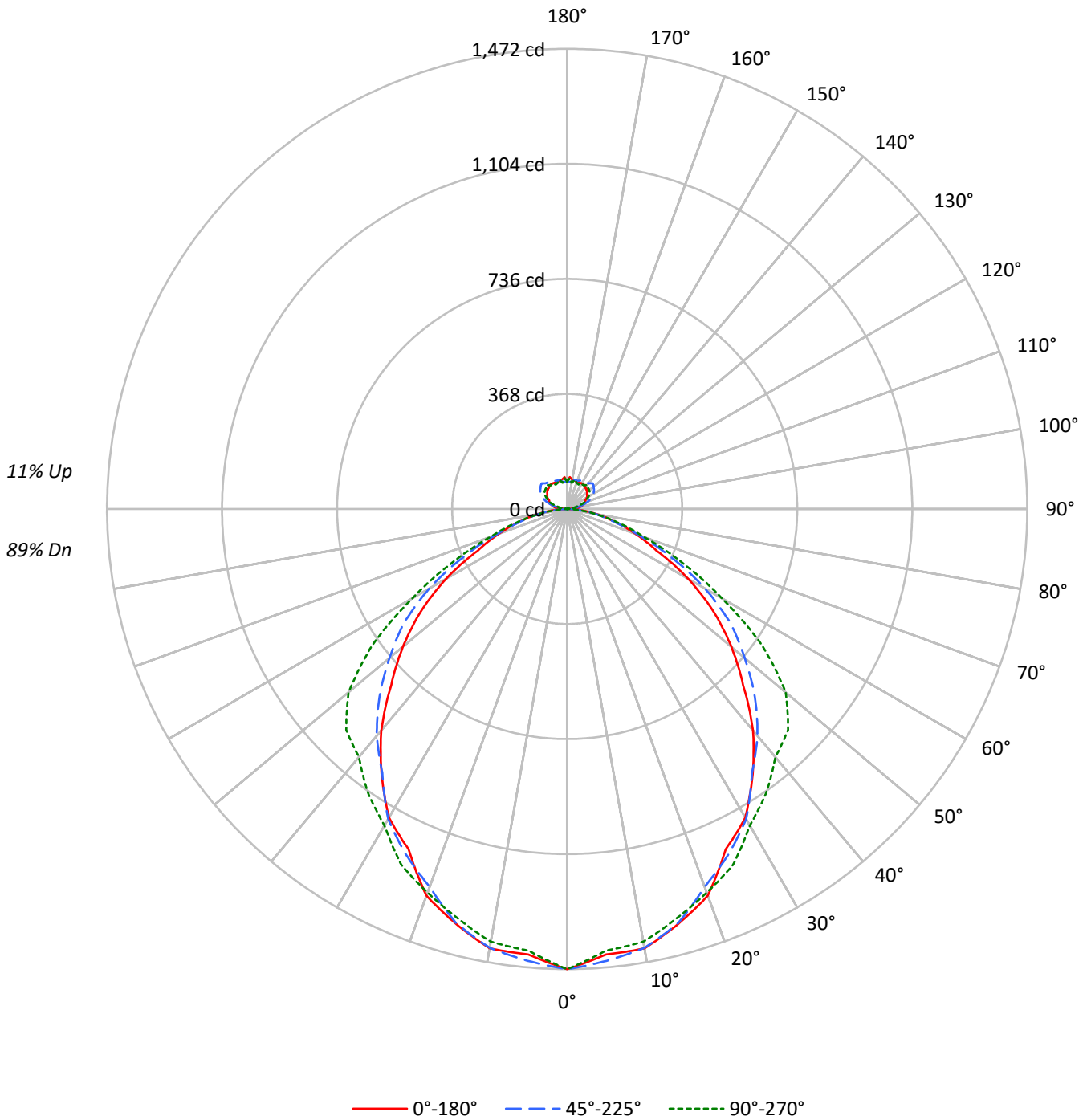
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 4033.0 lumens
Efficiency: 69.5%
Efficacy: 51.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.19 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (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



TEST NUMBER: CTL58842
CATALOG NUMBER: NB-SW-2T8-DL2

Luminous Intensity Polar Plot





TEST NUMBER: CTL58842

CATALOG NUMBER: NB-SW-2T8-DL2

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	81	81	81	81	78	78	78	78	73	73	73	68	68	68	64	64	64	62
1	74	71	69	66	72	69	67	64	65	63	61	61	59	58	57	56	55	53
2	68	63	58	55	66	61	57	53	57	54	51	54	51	49	50	48	46	45
3	62	55	50	46	60	54	49	45	51	46	43	48	44	41	45	42	40	38
4	57	49	43	39	55	48	43	38	45	41	37	43	39	36	40	37	34	33
5	53	44	38	34	51	43	37	33	41	36	32	38	34	31	36	33	30	29
6	49	40	34	30	47	39	33	29	37	32	28	35	31	27	33	29	27	25
7	45	36	30	26	43	35	30	26	33	29	25	32	28	24	30	27	24	22
8	42	33	27	23	40	32	27	23	31	26	22	29	25	22	28	24	21	20
9	39	30	25	21	38	30	24	21	28	24	20	27	23	20	26	22	19	18
10	37	28	23	19	36	27	22	19	26	22	18	25	21	18	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5283	5283	5283
5°	5124	5106	4970
10°	5147	4959	4848
15°	5024	4754	4637
20°	4919	4474	4467
25°	4625	4293	4328
30°	4566	4108	4089
35°	4350	3801	3973
40°	4126	3623	3828
45°	3811	3399	3844
50°	3573	3137	3689
55°	3294	2887	3275
60°	2910	2497	2641
65°	2378	1991	2039
70°	2089	1465	1455
75°	1787	1044	1056
80°	1485	739	642
85°	963	323	259



TEST NUMBER: CTL58842

CATALOG NUMBER: NB-SW-2T8-DL2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	138.3	3.4	2.4
10°-20°	385.3	9.6	6.6
20°-30°	564.9	14.0	9.7
30°-40°	658.3	16.3	11.3
40°-50°	671.4	16.6	11.6
50°-60°	577.9	14.3	10.0
60°-70°	367.3	9.1	6.3
70°-80°	170.6	4.2	2.9
80°-90°	43.2	1.1	0.7
90°-100°	17.5	0.4	0.3
100°-110°	53.4	1.3	0.9
110°-120°	76.9	1.9	1.3
120°-130°	84.7	2.1	1.5
130°-140°	79.3	2.0	1.4
140°-150°	63.5	1.6	1.1
150°-160°	44.9	1.1	0.8
160°-170°	26.9	0.7	0.5
170°-180°	8.7	0.2	0.2
0°-30°	1088.4	27.0	18.8
0°-40°	1746.7	43.3	30.1
0°-60°	2996.0	74.3	51.7
0°-90°	3577.1	88.7	61.7
90°-120°	147.8	3.7	2.5
90°-150°	375.4	9.3	6.5
90°-180°	456.0	11.3	7.9
0°-180°	4033.0	100.0	69.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1430	1464	1451	1497	1418	137
15°	1374	1362	1372	1362	1355	388
25°	1201	1229	1220	1227	1256	560
35°	1035	1035	1031	1063	1110	647
45°	796	814	849	927	1000	618
55°	572	572	638	731	762	509
65°	316	340	369	399	405	324
75°	158	154	151	162	167	170
85°	39	39	32	29	29	45
90°	8	3	1	0	0	12
95°	32	19	11	9	6	26
105°	52	62	53	45	36	56
115°	63	83	85	78	68	65
125°	78	94	104	98	90	70
135°	88	98	116	107	95	68
145°	95	99	104	104	92	59
155°	93	98	101	96	86	43
165°	95	94	97	95	97	27
175°	103	89	87	89	99	9
180°	87	87	87	87	87	



TEST NUMBER: CTL58842

CATALOG NUMBER: NB-SW-2T8-DL2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1472.3	1472.3	1472.3	1472.3	1472.3
5°	1430.2	1463.7	1450.9	1497.0	1418.4
10°	1427.5	1408.5	1425.4	1455.3	1405.6
15°	1374.2	1362.5	1371.8	1362.3	1355.2
20°	1316.4	1306.7	1286.1	1296.6	1305.8
25°	1200.8	1228.9	1220.0	1227.3	1256.0
30°	1140.2	1134.0	1145.1	1141.8	1168.9
35°	1034.8	1034.7	1030.8	1063.2	1109.9
40°	925.1	924.4	947.5	982.0	1036.2
45°	796.1	814.2	849.4	927.2	999.5
50°	685.7	692.9	741.5	858.2	912.3
55°	571.6	571.7	638.3	730.9	762.3
60°	447.5	457.2	509.6	555.4	571.6
65°	316.1	340.5	369.4	398.8	404.7
70°	231.9	230.7	242.6	252.5	260.4
75°	157.7	153.7	150.6	162.4	166.9
80°	96.3	90.8	90.2	84.4	87.4
85°	39.4	39.4	31.9	29.1	29.2
90°	7.9	3.1	1.0	0.5	0.4
95°	31.6	19.3	11.3	8.6	6.0
100°	45.0	41.7	31.2	26.8	19.6
105°	51.8	62.0	53.2	45.4	35.7
110°	62.0	75.1	72.3	62.3	56.4
115°	63.4	82.8	85.1	77.6	67.5
120°	73.1	89.2	98.0	87.3	78.6
125°	77.9	94.5	104.5	98.5	89.8
130°	83.4	95.8	111.0	104.5	92.0
135°	87.9	98.0	115.7	107.0	95.3
140°	90.6	99.0	107.5	114.7	99.8
145°	94.7	99.2	104.0	104.3	92.3
150°	94.1	102.4	103.0	100.1	92.6
155°	92.7	97.6	100.6	96.2	86.5
160°	91.2	96.8	95.3	101.4	88.8
165°	95.2	94.4	97.0	95.0	97.0
170°	95.1	88.1	88.3	102.3	84.7
175°	102.6	89.3	87.0	89.4	99.0
180°	87.1	87.1	87.1	87.1	87.1

(END OF REPORT)