

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: CTL58827

Luminaire Tested: **NB-SW-1T8-DL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58827
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T8-DL3
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

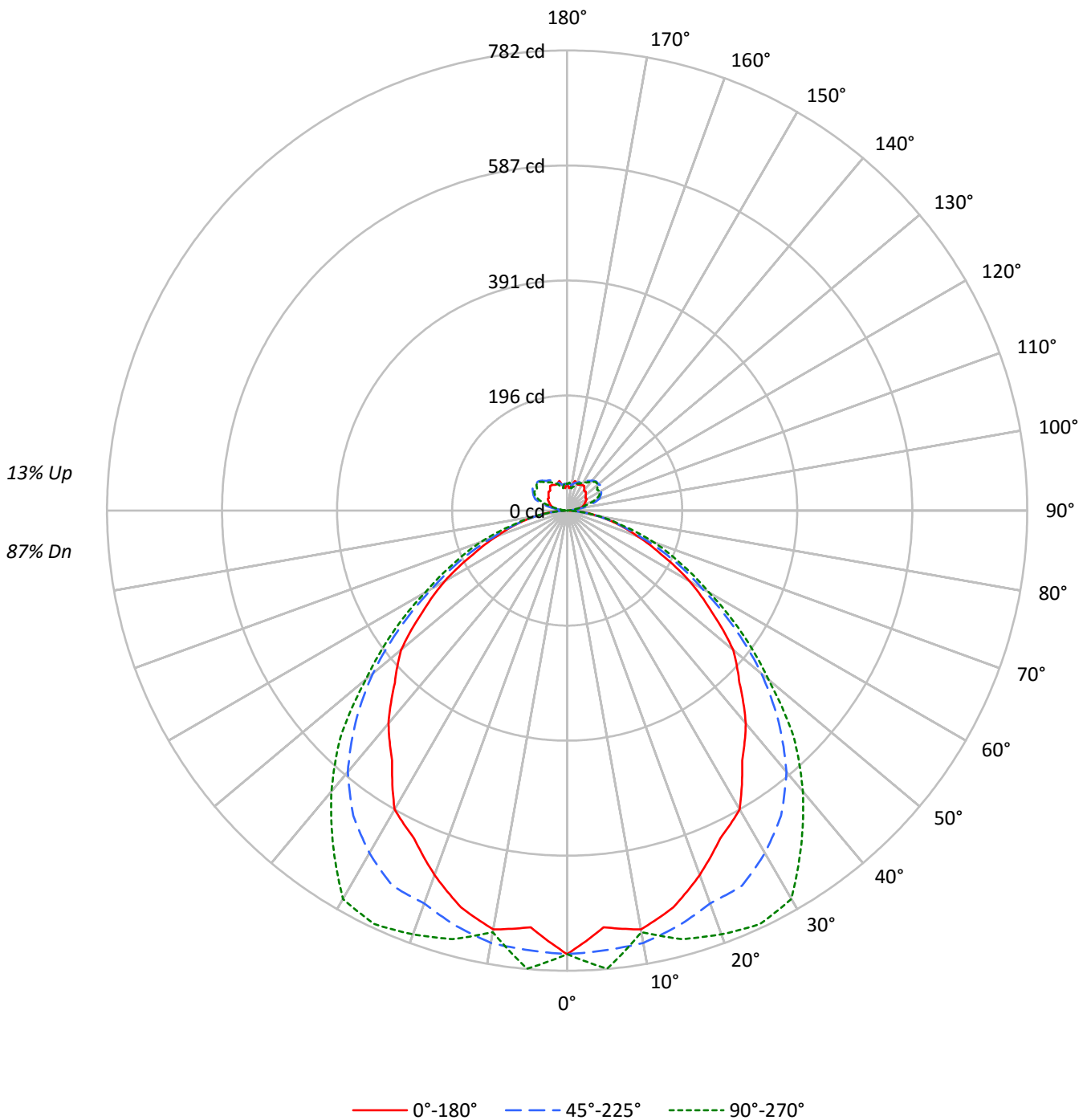
Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 2285.3 lumens
Efficiency: 78.8%
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.41 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4.04' x H: 0.24')
CIE Type: Semi-Direct

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				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	91	91	91	91	88	88	88	88	82	82	82		76	76	76		71	71	71	69
1	84	81	78	75	81	78	75	73	73	71	69		68	66	65		64	62	61	59
2	77	71	66	62	74	69	64	60	64	61	57		60	57	55		56	54	52	50
3	70	63	57	52	68	61	55	51	57	52	49		53	50	47		50	47	45	42
4	65	56	49	44	62	54	48	43	51	46	42		48	44	40		45	42	39	37
5	59	50	43	38	57	48	42	38	46	40	36		43	39	35		41	37	34	32
6	55	45	38	33	53	44	37	33	41	36	32		39	34	31		37	33	30	28
7	51	41	34	30	49	40	33	29	38	32	28		36	31	27		34	30	27	25
8	47	37	31	26	46	36	30	26	34	29	25		33	28	25		31	27	24	22
9	44	34	28	24	43	33	27	23	32	26	23		30	25	22		29	25	21	20
10	41	31	25	21	40	31	25	21	29	24	21		28	23	20		27	22	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2676	2676	2676
5°	2520	2612	2710
10°	2579	2568	2483
15°	2525	2506	2553
20°	2437	2445	2594
25°	2344	2449	2644
30°	2325	2387	2638
35°	2159	2312	2457
40°	2086	2195	2278
45°	1963	2014	2074
50°	1901	1805	1787
55°	1711	1552	1540
60°	1550	1284	1274
65°	1315	1060	1058
70°	1135	808	865
75°	987	621	602
80°	803	419	407
85°	597	187	144



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	71.0	3.1	2.4
10°-20°	206.6	9.0	7.1
20°-30°	322.1	14.1	11.1
30°-40°	389.3	17.0	13.4
40°-50°	381.2	16.7	13.1
50°-60°	305.4	13.4	10.5
60°-70°	197.5	8.6	6.8
70°-80°	98.8	4.3	3.4
80°-90°	25.3	1.1	0.9
90°-100°	11.0	0.5	0.4
100°-110°	39.4	1.7	1.4
110°-120°	55.3	2.4	1.9
120°-130°	55.4	2.4	1.9
130°-140°	48.5	2.1	1.7
140°-150°	36.7	1.6	1.3
150°-160°	24.2	1.1	0.8
160°-170°	13.4	0.6	0.5
170°-180°	4.1	0.2	0.1
0°-30°	599.7	26.2	20.7
0°-40°	989.0	43.3	34.1
0°-60°	1675.6	73.3	57.8
0°-90°	1997.3	87.4	68.9
90°-120°	105.7	4.6	3.6
90°-150°	246.3	10.8	8.5
90°-180°	288.0	12.6	9.9
0°-180°	2285.3	100.0	78.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	711	732	750	745	782	69
15°	698	714	731	754	754	196
25°	615	658	703	748	775	286
35°	519	570	633	690	694	328
45°	414	465	509	526	545	322
55°	300	339	346	347	362	270
65°	176	190	199	209	212	178
75°	88	89	90	94	96	94
85°	25	20	19	19	16	26
90°	4	2	1	1	0	6
95°	14	13	7	5	3	12
105°	28	41	44	39	30	28
115°	34	50	63	67	60	34
125°	38	55	72	72	62	35
135°	45	54	70	72	69	34
145°	51	52	61	66	58	31
155°	48	51	54	52	51	23
165°	52	45	48	49	42	14
175°	38	40	46	41	48	4
180°	45	45	45	45	45	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	753.8	753.8	753.8	753.8	753.8
5°	710.8	732.2	750.0	744.6	781.5
10°	722.8	724.6	746.0	770.9	727.4
15°	697.9	714.3	730.6	753.9	753.9
20°	658.8	684.5	710.3	754.4	766.4
25°	615.0	657.5	703.3	747.9	775.4
30°	586.6	617.2	672.1	719.1	762.1
35°	518.7	570.0	633.4	689.7	693.7
40°	472.4	517.6	579.9	614.1	623.2
45°	414.1	464.6	508.6	526.5	545.0
50°	368.4	407.0	431.1	437.9	446.6
55°	299.8	338.7	346.5	347.4	362.3
60°	240.7	260.2	264.7	270.4	278.6
65°	176.4	189.8	198.7	208.7	212.2
70°	127.1	132.3	135.1	146.6	156.5
75°	87.9	89.3	90.5	93.8	96.2
80°	52.5	51.7	51.6	53.4	55.9
85°	24.6	20.2	18.6	18.9	16.4
90°	3.6	1.8	0.6	0.6	0.3
95°	13.5	13.4	6.7	4.6	3.2
100°	20.6	29.1	25.5	19.0	12.9
105°	28.0	41.4	43.9	38.8	30.3
110°	30.8	45.8	57.9	56.9	49.1
115°	34.0	49.5	63.2	66.6	60.1
120°	38.0	50.9	67.3	69.6	64.5
125°	38.1	55.1	72.2	71.5	62.0
130°	41.5	54.4	69.5	73.8	68.2
135°	44.9	54.4	70.0	71.8	68.8
140°	44.6	54.6	66.4	67.6	63.5
145°	50.9	52.3	61.4	65.5	58.2
150°	50.3	52.1	59.5	58.0	55.5
155°	48.0	51.4	54.0	51.8	50.7
160°	48.1	50.1	50.3	50.8	48.5
165°	52.2	44.9	48.2	48.8	42.4
170°	42.8	44.3	44.0	46.4	38.5
175°	38.2	39.7	45.8	40.9	47.9
180°	44.9	44.9	44.9	44.9	44.9

(END OF REPORT)