

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: CTL58826

Luminaire Tested: **NB-SW-1T8-DL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58826
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T8-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

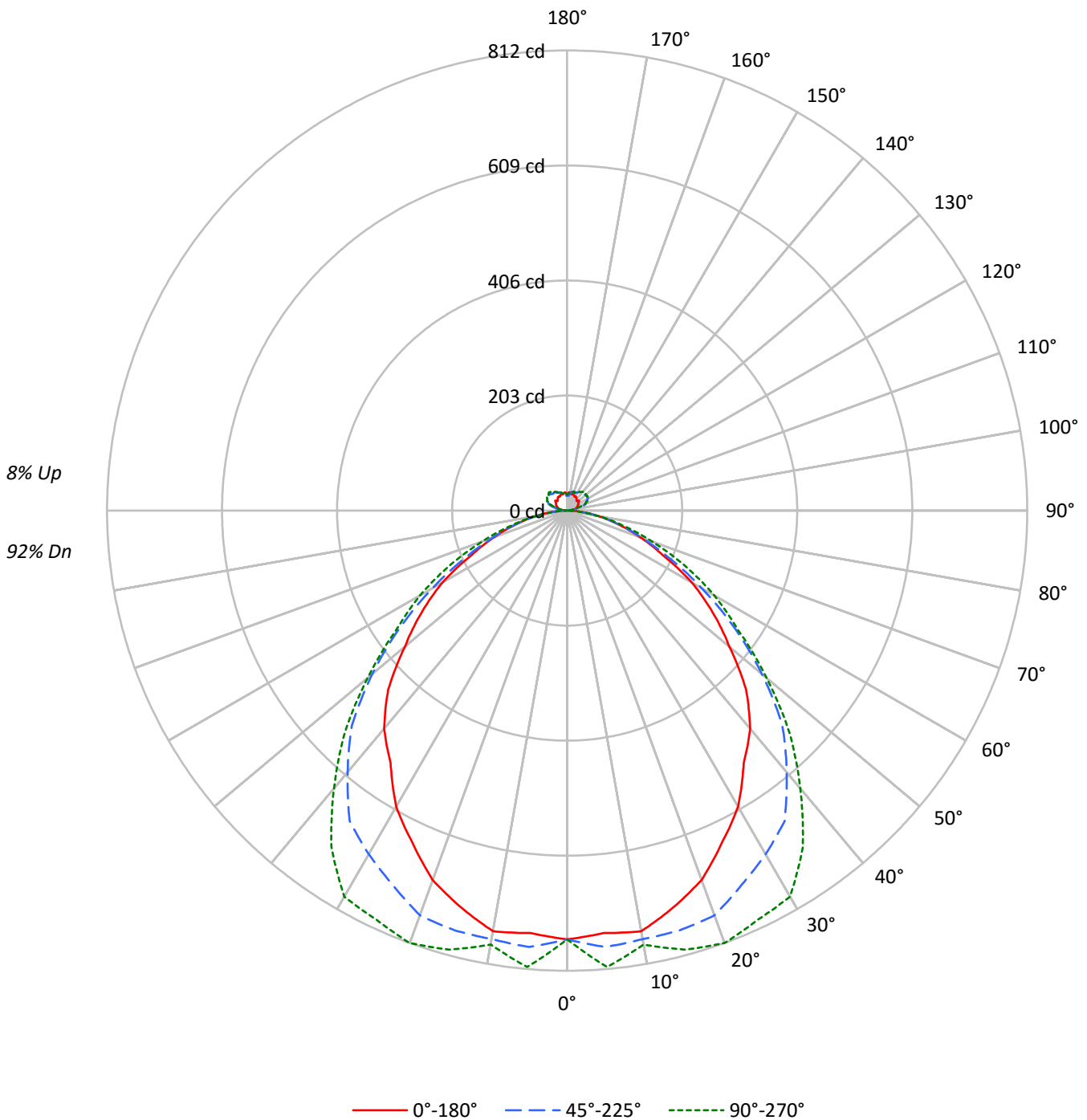
Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 2263.2 lumens
Efficiency: 78.0%
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.45 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Direct

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					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	0	
RCR																						
0	91	91	91	91	89	89	89	89	83	83	83	78	78	78	74	74	74	74	74	74	72	
1	84	81	78	75	81	78	76	73	74	72	70	70	68	66	66	65	63	66	65	63	61	
2	77	71	66	62	74	69	64	61	65	61	58	62	59	56	59	56	54	59	56	54	52	
3	70	63	57	52	68	61	55	51	58	53	49	55	51	48	52	49	46	52	49	46	44	
4	65	56	49	44	62	54	48	44	52	46	42	49	45	41	47	43	40	47	43	40	38	
5	60	50	43	38	57	49	42	38	46	41	37	44	40	36	42	38	35	42	38	35	33	
6	55	45	38	34	53	44	38	33	42	36	32	40	35	32	38	34	31	38	34	31	29	
7	51	41	34	30	49	40	34	29	38	33	29	37	32	28	35	31	28	35	31	28	26	
8	47	37	31	27	46	37	30	26	35	30	26	34	29	25	32	28	25	32	28	25	23	
9	44	34	28	24	43	34	28	24	32	27	23	31	26	23	30	25	22	30	25	22	21	
10	42	32	26	22	40	31	25	21	30	25	21	29	24	21	28	23	20	28	23	20	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2714	2714	2714
5°	2681	2720	2832
10°	2718	2671	2682
15°	2650	2657	2744
20°	2592	2644	2778
25°	2490	2564	2745
30°	2416	2512	2752
35°	2284	2467	2596
40°	2241	2304	2365
45°	2137	2150	2134
50°	1948	1898	1859
55°	1807	1628	1584
60°	1651	1344	1384
65°	1399	1074	1147
70°	1230	841	885
75°	1049	646	641
80°	856	441	409
85°	594	210	160



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	73.5	3.2	2.5
10°-20°	216.3	9.6	7.5
20°-30°	336.3	14.9	11.6
30°-40°	405.8	17.9	14.0
40°-50°	397.2	17.5	13.7
50°-60°	317.1	14.0	10.9
60°-70°	206.4	9.1	7.1
70°-80°	103.1	4.6	3.6
80°-90°	26.3	1.2	0.9
90°-100°	7.5	0.3	0.3
100°-110°	24.9	1.1	0.9
110°-120°	34.0	1.5	1.2
120°-130°	34.5	1.5	1.2
130°-140°	30.0	1.3	1.0
140°-150°	23.0	1.0	0.8
150°-160°	15.5	0.7	0.5
160°-170°	9.0	0.4	0.3
170°-180°	2.9	0.1	0.1
0°-30°	626.0	27.7	21.6
0°-40°	1031.8	45.6	35.6
0°-60°	1746.1	77.2	60.2
0°-90°	2081.9	92.0	71.8
90°-120°	66.4	2.9	2.3
90°-150°	153.9	6.8	5.3
90°-180°	181.0	8.0	6.2
0°-180°	2263.2	100.0	78.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	748	767	773	776	808	72
15°	725	743	767	790	802	205
25°	646	688	729	780	796	299
35°	543	592	669	708	725	343
45°	446	487	537	544	555	341
55°	314	351	360	362	369	281
65°	186	197	199	220	228	189
75°	93	94	93	98	101	100
85°	24	22	21	19	18	27
90°	3	2	0	0	0	6
95°	11	10	4	3	2	8
105°	18	23	28	26	21	18
115°	22	29	37	41	39	21
125°	24	33	43	44	44	22
135°	24	33	41	47	45	19
145°	28	33	40	42	40	17
155°	29	32	36	35	34	14
165°	30	30	35	32	31	9
175°	32	30	26	32	31	3
180°	27	27	27	27	27	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.5	756.5	756.5	756.5	756.5
5°	748.3	766.6	773.0	775.8	808.4
10°	753.8	752.4	767.7	796.5	777.6
15°	724.8	742.7	766.8	789.7	802.0
20°	693.6	711.4	760.1	786.2	812.1
25°	646.5	687.8	728.6	780.0	796.5
30°	603.3	645.6	700.1	756.5	786.6
35°	543.3	592.4	668.9	707.5	725.2
40°	502.5	549.9	602.6	634.9	640.1
45°	446.4	487.4	537.3	544.1	554.9
50°	373.8	418.8	448.6	451.1	459.7
55°	313.6	351.0	360.0	362.5	368.6
60°	254.0	272.7	274.3	286.1	299.5
65°	185.9	197.4	199.2	220.5	227.7
70°	136.5	137.7	139.3	155.9	158.3
75°	92.6	94.3	93.3	98.2	101.3
80°	55.5	55.0	53.8	53.0	55.7
85°	24.3	21.6	20.7	18.7	18.1
90°	3.2	1.9	0.5	0.3	0.4
95°	10.8	9.6	4.2	3.2	2.4
100°	13.4	19.0	16.4	11.7	9.2
105°	17.6	23.4	27.8	26.0	20.8
110°	19.0	28.7	35.1	37.0	31.7
115°	21.5	28.9	37.1	41.0	39.1
120°	22.3	31.4	42.5	43.0	40.4
125°	24.3	33.1	43.0	44.4	44.0
130°	27.5	32.4	42.8	47.6	43.2
135°	23.7	32.9	41.3	47.2	45.4
140°	25.6	31.0	38.6	45.0	43.1
145°	28.3	32.7	39.8	41.6	39.8
150°	28.3	33.0	36.7	38.0	38.3
155°	28.9	31.9	35.5	34.8	33.8
160°	31.2	29.2	33.5	31.8	35.8
165°	29.5	29.5	34.9	31.7	30.9
170°	31.6	33.3	30.4	31.2	31.1
175°	32.1	29.5	26.0	31.7	31.4
180°	27.2	27.2	27.2	27.2	27.2

(END OF REPORT)