

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: CTL58829

Luminaire Tested: **NB-SW-1T8-DL5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58829
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T8-DL5
Description: NAVIGATOR II SUSPENDED LUMINAIRE & DOWNLIGHT KIT
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL
Light Source: 32 WATT T8 LAMP
FP32T8/835. LUMEN RATING = 2900 LMS.
Ballast/Driver: -

Summary

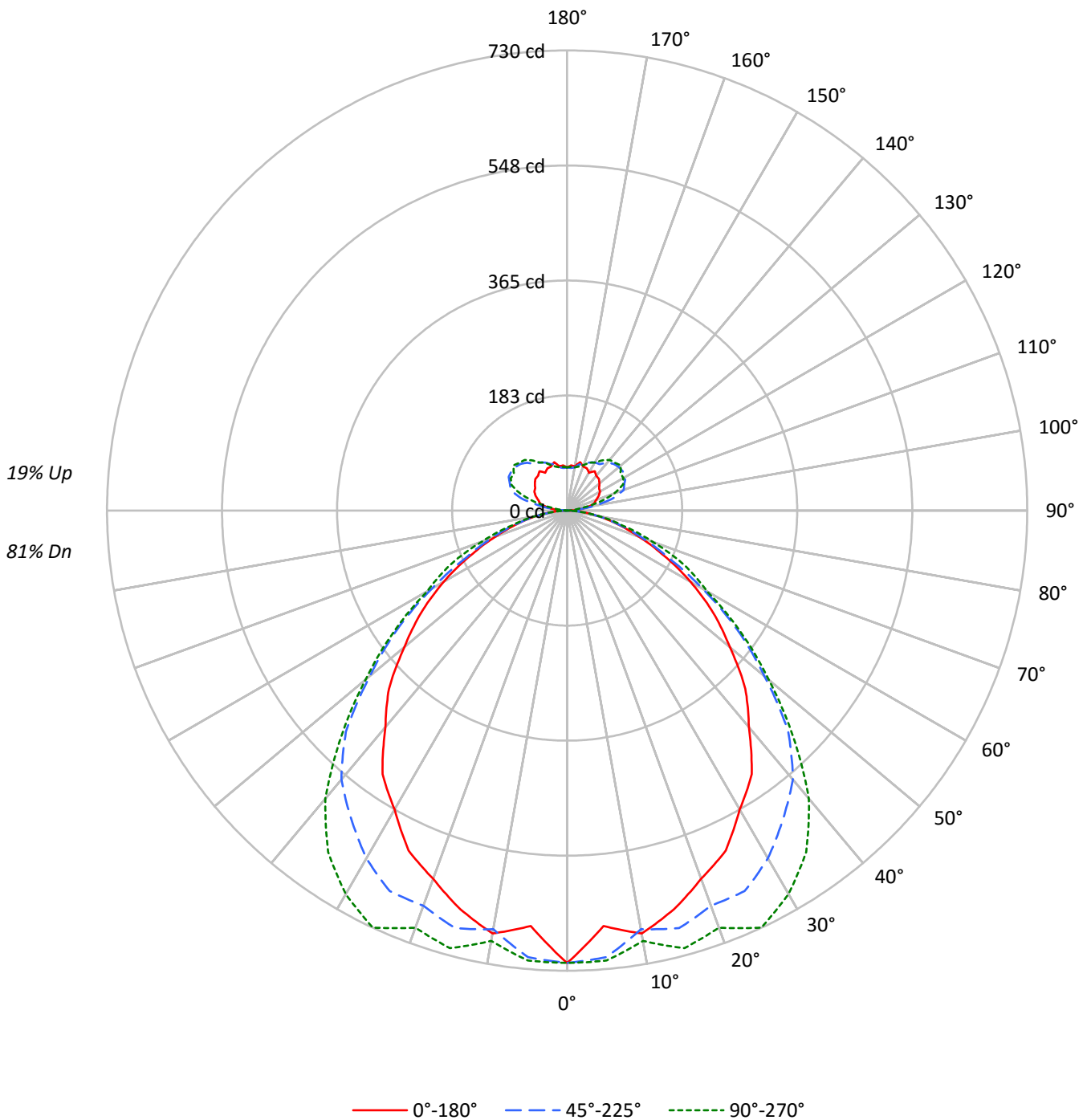
Lumens per Lamp: 2950 (1 lamp)
Luminaire Lumens: 2339.5 lumens
Efficiency: 79.3%
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.41 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): 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	87	87	87	87	80	80	80	73	73	73	67	67	67	64
1	83	80	77	74	80	77	74	71	70	68	66	65	63	62	60	58	57	55
2	76	70	65	61	73	67	63	59	62	59	55	57	54	52	53	51	49	46
3	70	62	56	51	66	60	54	50	55	51	47	51	47	44	47	44	42	39
4	64	55	49	44	61	53	47	43	49	44	40	46	41	38	42	39	36	34
5	59	49	43	38	56	48	41	37	44	39	35	41	37	33	38	34	32	30
6	54	44	38	33	52	43	37	32	40	35	31	37	33	29	35	31	28	26
7	50	40	34	29	48	39	33	28	36	31	27	34	29	26	32	28	25	23
8	47	37	30	26	45	35	29	25	33	28	24	31	27	23	29	25	22	21
9	44	34	27	23	42	33	27	23	30	25	22	29	24	21	27	23	20	19
10	41	31	25	21	39	30	24	21	28	23	20	26	22	19	25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2575	2575	2575
5°	2370	2503	2510
10°	2456	2346	2391
15°	2394	2377	2459
20°	2323	2320	2409
25°	2292	2344	2515
30°	2193	2285	2457
35°	2147	2202	2367
40°	2000	2130	2204
45°	1915	1986	1950
50°	1756	1728	1687
55°	1631	1491	1445
60°	1470	1212	1183
65°	1277	951	1040
70°	1088	769	804
75°	926	581	574
80°	762	398	383
85°	530	180	143



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	66.3	2.8	2.2
10°-20°	193.7	8.3	6.6
20°-30°	303.0	12.9	10.3
30°-40°	369.3	15.8	12.5
40°-50°	362.6	15.5	12.3
50°-60°	287.0	12.3	9.7
60°-70°	185.0	7.9	6.3
70°-80°	93.1	4.0	3.2
80°-90°	23.8	1.0	0.8
90°-100°	17.6	0.8	0.6
100°-110°	65.3	2.8	2.2
110°-120°	88.5	3.8	3.0
120°-130°	86.9	3.7	2.9
130°-140°	75.2	3.2	2.6
140°-150°	56.2	2.4	1.9
150°-160°	38.0	1.6	1.3
160°-170°	21.4	0.9	0.7
170°-180°	6.7	0.3	0.2
0°-30°	563.0	24.1	19.1
0°-40°	932.3	39.9	31.6
0°-60°	1581.8	67.6	53.6
0°-90°	1883.7	80.5	63.9
90°-120°	171.5	7.3	5.8
90°-150°	389.7	16.7	13.2
90°-180°	456.0	19.5	15.5
0°-180°	2339.5	100.0	79.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	718	718	718	718	718	
5°	662	688	711	706	716	65
15°	655	671	686	719	719	184
25°	595	616	666	691	730	272
35°	511	543	597	645	661	316
45°	400	436	496	503	507	306
55°	283	312	330	331	336	252
65°	170	174	176	198	206	170
75°	82	84	84	90	91	88
85°	22	19	18	17	16	24
90°	4	1	1	1	0	7
95°	19	21	11	7	5	18
105°	45	66	76	66	53	45
115°	55	78	100	106	98	54
125°	62	82	108	114	103	56
135°	71	82	105	115	107	54
145°	76	83	90	98	97	46
155°	74	80	84	88	84	34
165°	80	71	76	76	72	22
175°	72	70	68	73	70	7
180°	68	68	68	68	68	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	717.6	717.6	717.6	717.6	717.6
5°	661.5	688.2	711.2	705.7	716.5
10°	681.3	668.1	674.4	701.8	693.2
15°	654.8	670.9	685.9	718.6	718.6
20°	621.7	643.4	667.0	712.2	704.2
25°	595.2	616.5	666.2	691.0	729.8
30°	547.6	587.2	637.0	679.9	702.5
35°	510.7	542.6	597.2	645.2	661.2
40°	448.4	500.9	557.1	577.3	596.7
45°	399.9	435.7	496.3	502.9	507.1
50°	337.0	377.7	408.5	417.6	417.2
55°	283.0	311.6	329.7	330.8	336.3
60°	226.1	247.1	247.4	256.0	256.1
65°	169.7	174.1	176.4	197.9	206.3
70°	120.8	126.1	127.3	140.8	143.8
75°	81.7	83.7	83.8	89.7	90.7
80°	49.4	51.4	48.5	48.3	52.1
85°	21.7	19.4	17.8	16.8	16.2
90°	3.5	1.4	0.6	0.7	0.5
95°	19.2	20.8	10.6	6.9	5.4
100°	33.4	51.1	43.8	30.5	21.6
105°	44.7	66.0	75.5	65.9	52.6
110°	48.6	75.7	95.3	90.0	79.5
115°	55.1	77.6	100.0	105.7	97.8
120°	60.1	83.5	107.1	111.5	103.1
125°	61.8	82.2	107.9	113.8	103.2
130°	66.8	81.7	107.3	114.8	111.2
135°	71.2	81.8	104.6	114.9	107.1
140°	71.8	84.6	99.0	108.1	104.7
145°	76.3	82.7	89.9	97.9	97.2
150°	69.3	74.9	88.1	92.0	87.8
155°	74.0	79.5	84.2	88.5	83.8
160°	74.3	78.6	78.6	83.5	76.8
165°	79.5	71.0	75.9	76.3	72.4
170°	71.2	76.8	69.7	69.0	69.6
175°	71.8	69.6	67.7	72.7	69.8
180°	68.4	68.4	68.4	68.4	68.4

(END OF REPORT)