

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: CTL58831

Luminaire Tested: **NB-SW-1T8-DL7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58831
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T8-DL7
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

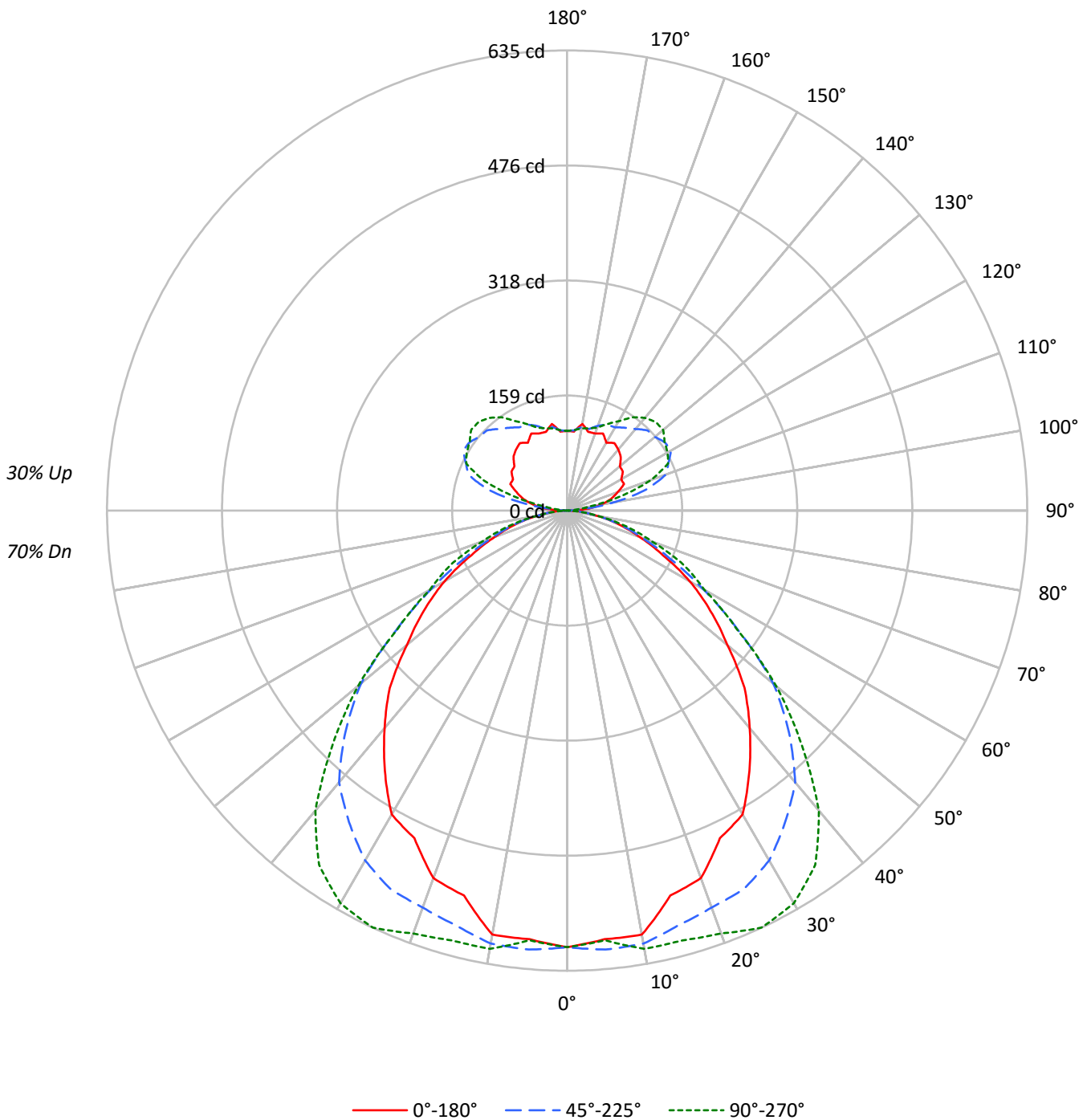
Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 2343.4 lumens
Efficiency: 80.8%
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.48 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 39
Input Voltage (V): NR
Input Current (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	90	90	90	90	86	86	86	86	76	76	76	68	68	68	60	60	60	57
1	83	80	76	74	78	75	73	70	68	66	64	61	59	58	54	53	52	49
2	76	70	65	61	72	66	62	58	60	56	53	53	51	48	48	46	44	41
3	69	62	56	51	65	59	53	49	53	48	45	47	44	41	43	40	38	35
4	64	55	48	43	60	52	46	42	47	42	39	42	39	36	38	35	33	30
5	58	49	42	37	55	47	40	36	42	37	33	38	34	31	34	31	28	26
6	54	44	37	32	51	42	36	31	38	33	29	35	30	27	31	28	25	23
7	50	40	33	29	47	38	32	28	35	30	26	31	27	24	28	25	22	20
8	46	36	30	25	44	35	29	25	32	27	23	29	25	21	26	23	20	18
9	43	33	27	23	41	32	26	22	29	24	21	27	22	19	24	21	18	16
10	40	30	24	20	38	29	24	20	27	22	19	25	20	18	22	19	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2162	2162	2162
5°	2128	2140	2085
10°	2142	2111	2118
15°	2011	2054	2101
20°	2017	2028	2124
25°	1921	2028	2188
30°	1939	2000	2188
35°	1843	1935	2137
40°	1748	1872	1997
45°	1657	1733	1761
50°	1504	1572	1523
55°	1392	1305	1230
60°	1270	1057	1011
65°	1098	840	895
70°	956	668	695
75°	837	529	533
80°	654	351	328
85°	459	168	122



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	57.2	2.4	2.0
10°-20°	167.4	7.1	5.8
20°-30°	263.6	11.2	9.1
30°-40°	324.8	13.9	11.2
40°-50°	319.9	13.7	11.0
50°-60°	250.2	10.7	8.6
60°-70°	161.2	6.9	5.6
70°-80°	82.7	3.5	2.9
80°-90°	21.1	0.9	0.7
90°-100°	25.8	1.1	0.9
100°-110°	97.4	4.2	3.4
110°-120°	135.6	5.8	4.7
120°-130°	132.8	5.7	4.6
130°-140°	114.5	4.9	3.9
140°-150°	86.2	3.7	3.0
150°-160°	58.7	2.5	2.0
160°-170°	33.5	1.4	1.2
170°-180°	10.6	0.5	0.4
0°-30°	488.2	20.8	16.8
0°-40°	813.0	34.7	28.0
0°-60°	1383.2	59.0	47.7
0°-90°	1648.2	70.3	56.8
90°-120°	258.8	11.0	8.9
90°-150°	592.3	25.3	20.4
90°-180°	695.0	29.7	24.0
0°-180°	2343.4	100.0	80.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	594	583	608	594	595	57
15°	550	569	593	613	614	158
25°	499	536	576	608	635	233
35°	438	475	525	565	597	274
45°	346	384	433	442	458	265
55°	242	271	289	289	286	216
65°	146	157	156	172	178	147
75°	74	75	76	79	84	78
85°	19	18	17	15	14	21
90°	3	2	1	1	1	7
95°	29	31	16	10	8	26
105°	63	100	114	93	77	66
115°	86	122	154	158	154	83
125°	94	126	164	178	164	83
135°	105	126	157	176	173	80
145°	114	122	140	150	157	70
155°	117	122	131	132	132	53
165°	112	119	116	118	117	32
175°	109	105	111	108	111	11
180°	110	110	110	110	110	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	602.5	602.5	602.5	602.5	602.5
5°	593.8	583.2	608.0	593.5	595.2
10°	594.2	581.3	606.7	623.9	614.1
15°	550.0	568.9	592.6	612.8	614.0
20°	539.7	555.8	582.9	614.2	621.0
25°	498.8	535.8	576.4	607.5	635.0
30°	484.2	508.5	557.5	595.2	625.6
35°	438.5	475.0	524.8	565.3	596.9
40°	391.9	433.0	489.6	522.1	540.5
45°	346.1	383.6	433.0	441.5	458.0
50°	288.6	330.1	371.6	366.5	376.6
55°	241.5	270.6	288.6	289.4	286.4
60°	195.4	214.4	215.8	216.3	218.8
65°	145.9	156.7	155.8	171.5	177.6
70°	106.1	110.3	110.6	124.7	124.4
75°	73.9	75.0	76.3	79.2	84.2
80°	42.4	44.1	42.8	44.2	44.6
85°	18.8	17.7	16.6	14.8	13.8
90°	3.1	1.9	1.0	0.6	0.6
95°	29.0	30.8	15.7	10.0	8.2
100°	48.2	74.9	66.3	43.3	29.9
105°	62.8	99.6	113.5	93.3	76.6
110°	74.3	114.2	144.9	142.8	122.7
115°	86.5	121.5	154.0	158.2	153.5
120°	86.1	123.2	165.6	168.2	160.1
125°	93.8	125.8	164.4	177.9	164.1
130°	94.9	122.2	158.0	180.4	173.0
135°	104.7	126.2	156.6	176.1	172.7
140°	109.8	124.4	146.9	165.6	167.0
145°	113.7	122.4	139.5	149.6	156.9
150°	108.1	122.9	132.6	141.4	142.3
155°	117.2	121.7	130.7	131.7	131.7
160°	113.1	119.6	124.6	125.0	121.7
165°	112.4	119.0	116.4	117.5	117.4
170°	121.4	115.4	117.2	113.4	115.0
175°	109.4	104.8	111.1	108.3	111.4
180°	109.8	109.8	109.8	109.8	109.8

(END OF REPORT)