

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: CTL58845

Luminaire Tested: **NB-SW-2T8-DL6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58845
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-2T8-DL6
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

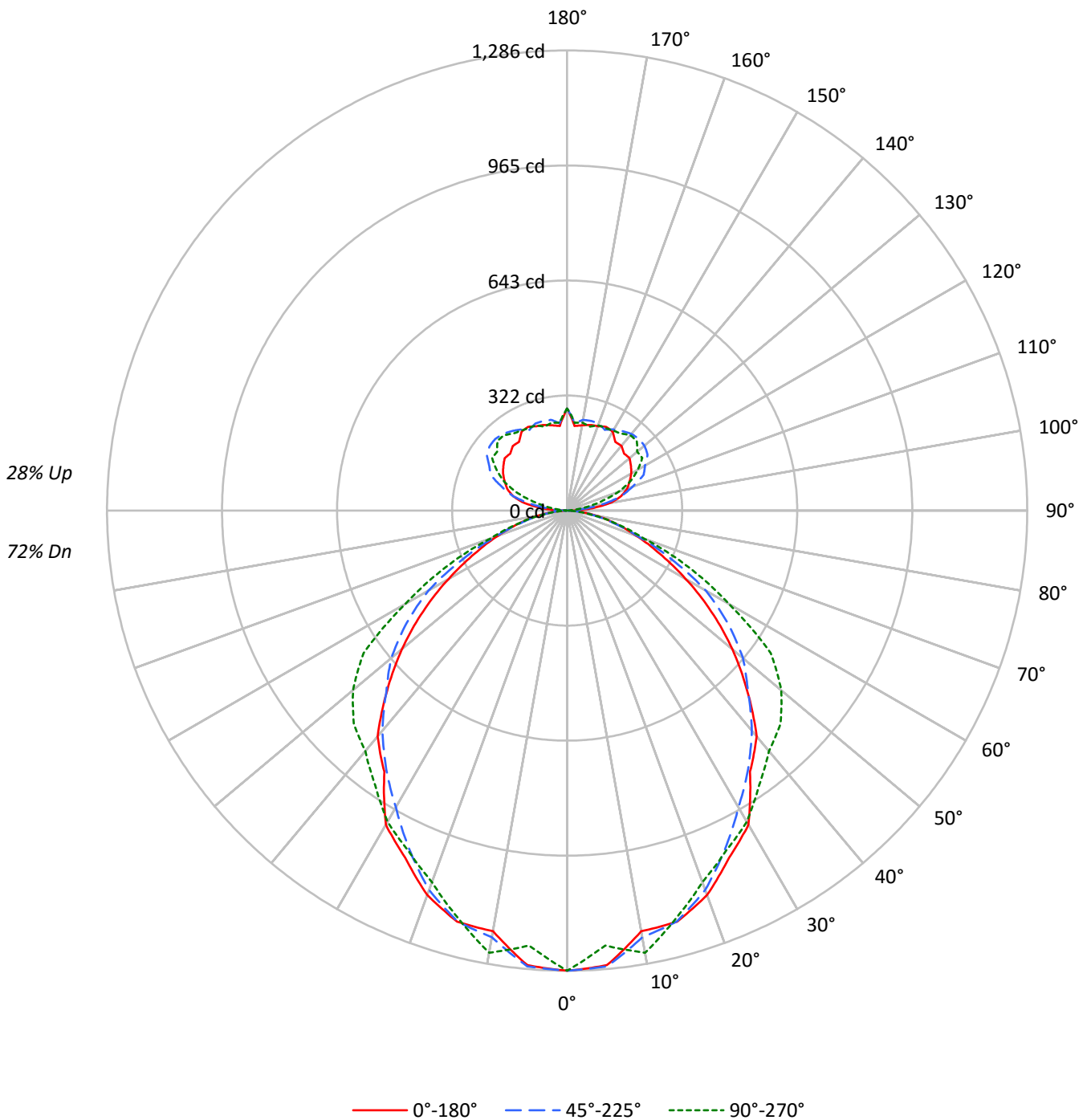
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 4321.4 lumens
Efficiency: 74.5%
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

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



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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	84	84	84	84	79	79	79	79	71	71	71		63	63	63		57	57	57	53
1	77	74	71	68	73	70	67	65	63	61	59		56	55	54		51	49	48	46
2	70	65	60	56	66	61	57	54	55	52	49		50	47	45		45	43	41	38
3	64	57	51	47	61	54	49	45	49	45	42		44	41	38		40	37	35	33
4	59	51	44	40	55	48	43	38	44	39	36		39	36	33		36	33	30	28
5	54	45	39	34	51	43	37	33	39	35	31		36	32	29		32	29	27	25
6	50	41	34	30	47	39	33	29	35	31	27		32	28	25		29	26	23	22
7	46	37	31	26	44	35	30	26	32	27	24		29	25	22		27	23	21	19
8	43	34	28	23	41	32	27	23	29	25	21		27	23	20		25	21	19	17
9	40	31	25	21	38	29	24	20	27	22	19		25	21	18		23	19	17	15
10	38	28	23	19	36	27	22	19	25	21	17		23	19	16		21	18	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4613	4613	4613
5°	4570	4498	4275
10°	4303	4213	4328
15°	4348	4117	4034
20°	4272	3925	3779
25°	4123	3674	3617
30°	4059	3436	3512
35°	3745	3250	3351
40°	3675	3069	3241
45°	3406	2858	3242
50°	3141	2713	3159
55°	2834	2476	2984
60°	2489	2191	2416
65°	2141	1733	1887
70°	1849	1271	1274
75°	1572	920	911
80°	1280	611	544
85°	838	289	203



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	120.1	2.8	2.1
10°-20°	332.0	7.7	5.7
20°-30°	484.4	11.2	8.4
30°-40°	565.5	13.1	9.7
40°-50°	576.7	13.3	9.9
50°-60°	503.1	11.6	8.7
60°-70°	323.1	7.5	5.6
70°-80°	150.0	3.5	2.6
80°-90°	37.6	0.9	0.6
90°-100°	47.0	1.1	0.8
100°-110°	153.5	3.6	2.6
110°-120°	215.0	5.0	3.7
120°-130°	229.1	5.3	4.0
130°-140°	205.9	4.8	3.5
140°-150°	164.3	3.8	2.8
150°-160°	118.8	2.7	2.0
160°-170°	71.2	1.6	1.2
170°-180°	24.1	0.6	0.4
0°-30°	936.5	21.7	16.1
0°-40°	1502.0	34.8	25.9
0°-60°	2581.8	59.7	44.5
0°-90°	3092.4	71.6	53.3
90°-120°	415.4	9.6	7.2
90°-150°	1014.8	23.5	17.5
90°-180°	1229.0	28.4	21.2
0°-180°	4321.4	100.0	74.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1275	1282	1278	1296	1220	119
15°	1189	1183	1188	1144	1179	334
25°	1071	1033	1044	1049	1050	496
35°	891	894	881	911	936	567
45°	712	703	714	782	843	550
55°	492	488	548	645	695	440
65°	285	289	322	352	374	286
75°	139	137	133	141	144	149
85°	34	33	28	25	23	39
90°	7	4	2	1	1	15
95°	64	54	33	19	12	64
105°	156	190	157	121	98	162
115°	192	245	236	206	196	191
125°	218	264	274	259	256	195
135°	225	256	284	275	275	177
145°	234	250	271	271	263	150
155°	258	260	249	262	254	118
165°	248	264	259	240	243	70
175°	237	250	245	258	246	23
180°	285	285	285	285	285	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1285.8	1285.8	1285.8	1285.8	1285.8
5°	1275.4	1281.9	1278.3	1296.0	1220.1
10°	1193.6	1226.8	1211.0	1239.0	1254.8
15°	1189.2	1183.1	1188.0	1143.8	1178.9
20°	1143.3	1125.9	1128.2	1128.7	1104.9
25°	1070.6	1032.9	1044.2	1049.1	1049.6
30°	1013.6	968.0	957.6	984.2	1004.0
35°	890.9	893.9	881.4	911.0	936.0
40°	824.0	815.0	802.8	853.2	877.5
45°	711.5	703.1	714.3	782.4	842.9
50°	602.8	591.0	641.4	743.2	781.3
55°	491.7	488.4	547.5	645.3	694.6
60°	382.9	388.4	447.1	494.1	522.8
65°	284.6	288.9	321.5	351.6	374.4
70°	205.2	205.6	210.4	229.0	228.0
75°	138.7	136.6	132.8	140.6	144.0
80°	83.0	82.1	74.6	75.7	74.0
85°	34.3	33.3	28.5	24.8	22.9
90°	7.1	3.5	2.0	1.2	0.7
95°	64.3	53.6	33.4	19.0	12.3
100°	122.0	138.3	98.4	67.8	51.0
105°	156.1	189.7	156.6	120.8	98.2
110°	178.6	222.4	193.4	164.7	151.7
115°	192.5	245.4	235.7	205.7	196.2
120°	206.8	249.4	251.2	244.7	227.3
125°	217.5	264.1	274.3	258.7	256.2
130°	227.8	262.9	281.9	272.3	255.6
135°	225.1	256.5	283.6	274.9	275.2
140°	235.9	257.1	279.5	273.1	274.7
145°	234.4	250.0	270.9	271.3	262.6
150°	254.6	249.4	261.5	270.7	257.5
155°	258.3	260.0	249.1	261.9	254.4
160°	250.9	248.0	258.9	254.2	253.2
165°	247.7	264.0	259.1	240.2	242.7
170°	241.8	244.1	257.4	237.8	249.2
175°	237.2	249.8	244.9	258.3	246.1
180°	285.2	285.2	285.2	285.2	285.2

(END OF REPORT)