

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: CTL58843

Luminaire Tested: **NB-SW-2T8-DL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58843  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-2T8-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**

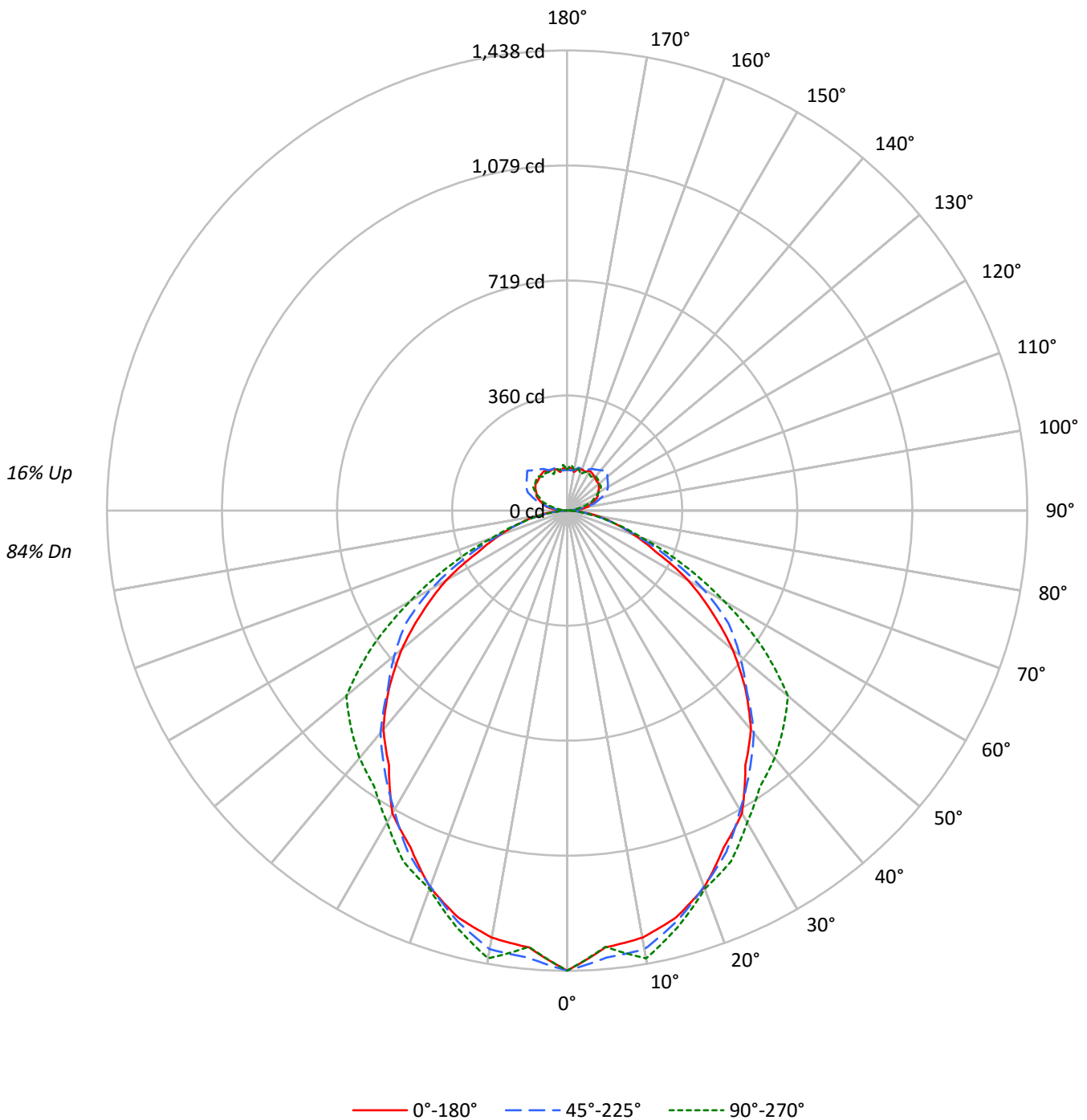
Lumens per Lamp: 2900 (2 lamps)  
Luminaire Lumens: 4126.5 lumens  
Efficiency: 71.1%  
Efficacy: 52.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.17 / 1.27  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4.04' x H: 0.24')  
CIE Type: Semi-Direct

Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	82	82	82	82	79	79	79	79	73	73	73		67	67	67		62	62	62	59
1	75	72	69	67	72	69	67	65	64	62	61		60	58	57		55	54	53	51
2	69	63	59	55	66	61	57	54	57	53	51		53	50	48		49	47	45	43
3	63	56	51	46	60	54	49	45	50	46	43		47	43	41		44	41	39	37
4	58	50	44	39	55	48	43	39	45	40	37		42	38	35		39	36	33	32
5	53	45	39	34	51	43	37	33	40	36	32		38	34	31		35	32	29	27
6	49	40	34	30	47	39	33	29	36	32	28		34	30	27		32	29	26	24
7	46	36	30	26	44	35	30	26	33	28	25		31	27	24		29	26	23	21
8	42	33	27	23	41	32	27	23	30	26	22		29	24	21		27	23	21	19
9	40	30	25	21	38	30	24	21	28	23	20		26	22	19		25	21	19	17
10	37	28	23	19	36	27	22	19	26	21	18		24	20	18		23	20	17	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5104	5104	5104
5°	4859	4884	4744
10°	4834	4792	4850
15°	4762	4553	4553
20°	4632	4304	4257
25°	4422	4099	4127
30°	4330	3838	3896
35°	4041	3626	3725
40°	3945	3434	3689
45°	3731	3140	3638
50°	3478	2951	3603
55°	3147	2760	3169
60°	2807	2381	2587
65°	2279	1887	1995
70°	1980	1376	1374
75°	1708	1020	952
80°	1440	677	591
85°	957	328	230



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	133.6	3.2	2.3
10°-20°	372.7	9.0	6.4
20°-30°	543.6	13.2	9.4
30°-40°	630.4	15.3	10.9
40°-50°	645.1	15.6	11.1
50°-60°	558.6	13.5	9.6
60°-70°	356.1	8.6	6.1
70°-80°	164.7	4.0	2.8
80°-90°	41.5	1.0	0.7
90°-100°	25.2	0.6	0.4
100°-110°	83.0	2.0	1.4
110°-120°	118.1	2.9	2.0
120°-130°	127.4	3.1	2.2
130°-140°	117.3	2.8	2.0
140°-150°	93.2	2.3	1.6
150°-160°	64.7	1.6	1.1
160°-170°	38.6	0.9	0.7
170°-180°	12.7	0.3	0.2
0°-30°	1049.9	25.4	18.1
0°-40°	1680.3	40.7	29.0
0°-60°	2884.0	69.9	49.7
0°-90°	3446.3	83.5	59.4
90°-120°	226.3	5.5	3.9
90°-150°	564.2	13.7	9.7
90°-180°	680.0	16.5	11.7
0°-180°	4126.5	100.0	71.1

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1370	1433	1402	1436	1368	131
15°	1316	1331	1328	1314	1345	370
25°	1160	1191	1177	1184	1210	538
35°	971	989	994	1026	1052	615
45°	787	784	793	895	956	606
55°	552	548	616	708	746	495
65°	306	326	354	392	400	314
75°	152	151	149	154	152	164
85°	39	35	33	28	26	45
90°	8	3	2	1	1	13
95°	36	28	18	11	8	35
105°	76	99	89	69	56	81
115°	106	130	136	115	94	103
125°	121	147	155	148	129	108
135°	130	152	176	151	136	101
145°	140	147	156	152	129	87
155°	134	140	139	139	133	63
165°	134	146	139	132	136	37
175°	134	144	126	140	143	12
180°	128	128	128	128	128	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1437.5	1437.5	1437.5	1437.5	1437.5
5°	1370.5	1433.4	1402.4	1435.5	1368.3
10°	1354.9	1364.7	1391.8	1352.4	1421.1
15°	1316.2	1330.8	1327.6	1313.6	1344.6
20°	1252.5	1264.2	1250.0	1244.4	1257.7
25°	1159.9	1190.8	1177.1	1183.6	1210.5
30°	1092.3	1083.0	1080.9	1091.3	1125.6
35°	971.1	989.2	993.5	1026.3	1051.5
40°	893.4	879.5	907.3	954.8	1009.2
45°	787.0	784.1	792.7	894.6	956.0
50°	674.1	664.3	704.7	824.4	900.5
55°	551.5	548.2	616.3	707.8	745.5
60°	435.8	443.3	490.7	535.2	565.9
65°	305.8	326.2	353.5	391.5	400.0
70°	221.8	224.6	230.1	253.1	248.5
75°	152.0	150.9	148.7	153.6	152.1
80°	94.1	89.0	83.4	84.2	81.2
85°	39.4	34.6	32.7	27.8	26.2
90°	8.5	2.8	1.5	0.7	0.6
95°	36.2	28.4	17.5	11.2	7.6
100°	64.5	68.4	49.4	38.0	29.0
105°	76.0	99.2	88.6	69.3	55.8
110°	91.8	112.6	109.8	100.3	82.1
115°	105.5	130.5	135.8	115.3	94.4
120°	111.1	140.7	147.4	132.8	114.9
125°	121.3	147.0	154.9	148.3	129.4
130°	128.8	141.7	163.9	152.8	130.5
135°	130.2	151.6	176.0	151.2	136.5
140°	134.4	151.8	164.1	159.4	139.2
145°	139.6	146.6	156.1	152.1	129.1
150°	142.8	145.5	150.4	145.7	135.2
155°	133.5	140.5	139.1	139.4	133.1
160°	136.9	147.2	137.3	134.0	121.2
165°	133.8	146.1	138.8	132.2	135.7
170°	122.2	136.0	128.0	133.8	128.3
175°	133.9	143.6	125.9	139.8	143.4
180°	127.6	127.6	127.6	127.6	127.6

(END OF REPORT)