

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: CTL58849

Luminaire Tested: **NB-SW-3T5-DL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58849  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-3T5-DL2  
Description: NAVIGATOR II SUSPENDED LUMINAIRE  
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & DOWNLIGHT KIT  
  
Light Source: 54 WATT T5 LAMP  
FP54T5/835HO. LUMEN RATING = 5000 LMS.  
Ballast/Driver: -

**Summary**

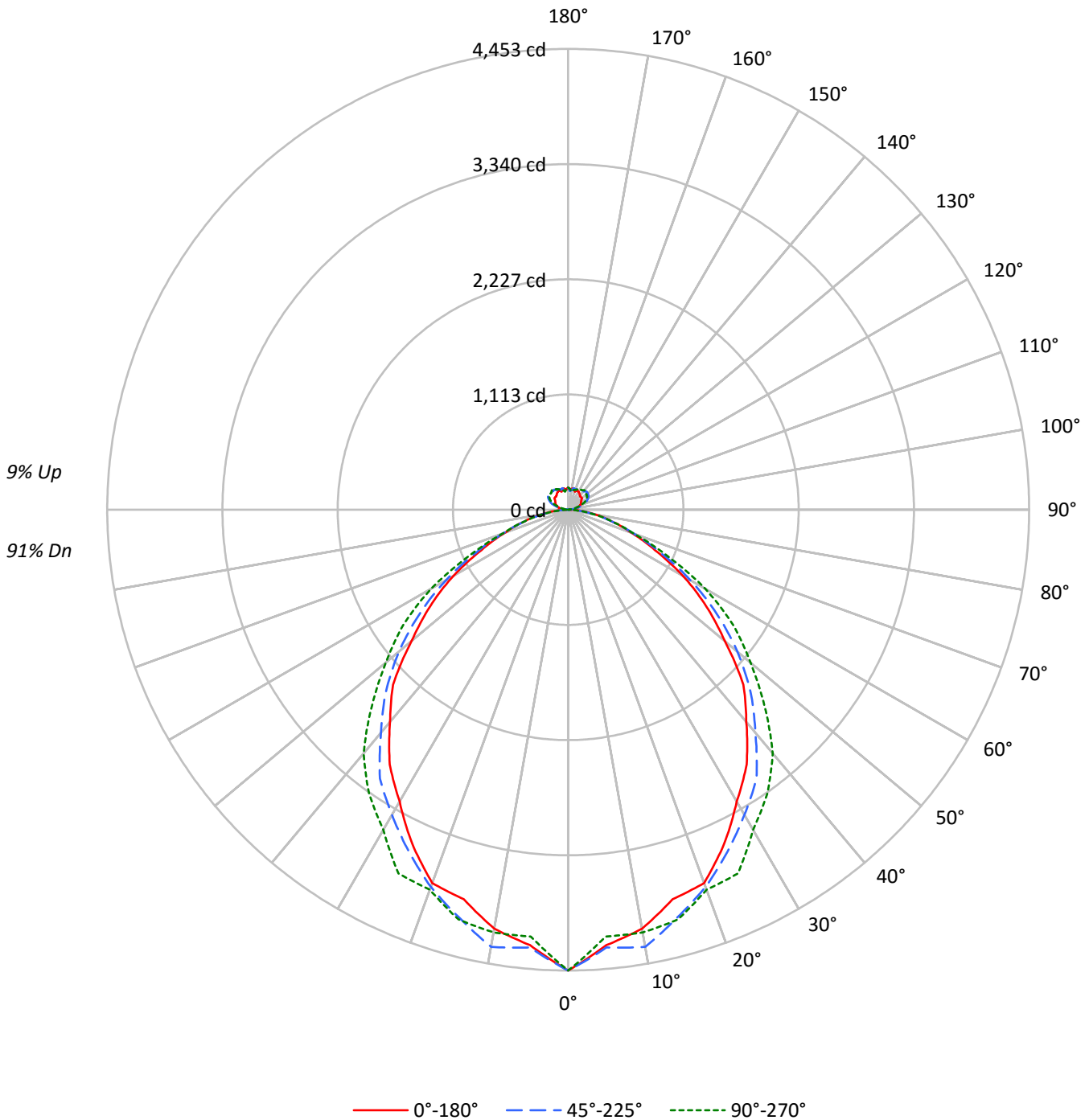
Lumens per Lamp: 5000 (3 lamps)  
Luminaire Lumens: 11344.8 lumens  
Efficiency: 75.6%  
Efficacy: 64.1 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.2 / 1.27  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Direct

Input Watts (W): 177  
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	50	30	10	0	
RCR																						
0	88	88	88	88	86	86	86	86	80	80	80	75	75	75	71	71	71	69				
1	81	78	75	73	79	76	73	71	71	69	67	67	66	64	64	62	61	59				
2	75	69	64	60	72	67	63	59	63	60	57	60	57	54	57	54	52	50				
3	68	61	55	51	66	59	54	50	56	52	48	53	49	46	50	47	45	43				
4	63	54	48	43	61	53	47	43	50	45	41	48	44	40	45	42	39	37				
5	58	49	42	38	56	47	42	37	45	40	36	43	39	35	41	37	34	32				
6	54	44	38	33	52	43	37	33	41	36	32	39	34	31	37	33	30	29				
7	50	40	34	29	48	39	33	29	37	32	28	36	31	28	34	30	27	25				
8	46	37	30	26	45	36	30	26	34	29	25	33	28	25	31	27	24	23				
9	43	34	28	24	42	33	27	23	32	26	23	30	26	22	29	25	22	21				
10	41	31	25	21	39	30	25	21	29	24	21	28	24	20	27	23	20	19				

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

	0°	45°	90°
0°	15977	15977	15977
5°	15134	14943	14506
10°	14820	14926	14306
15°	14244	14131	14024
20°	14346	13495	13365
25°	13727	12821	13363
30°	13042	12214	12497
35°	12633	11692	12000
40°	11937	10752	11354
45°	11456	9970	10315
50°	10284	9029	9292
55°	9383	7918	8366
60°	8320	6676	7058
65°	6948	5288	5314
70°	5868	4047	3749
75°	4983	2961	2774
80°	4145	2030	1849
85°	2813	898	736



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	404.9	3.6	2.7
10°-20°	1140.9	10.1	7.6
20°-30°	1695.4	14.9	11.3
30°-40°	1981.6	17.5	13.2
40°-50°	1936.8	17.1	12.9
50°-60°	1581.5	13.9	10.5
60°-70°	998.0	8.8	6.7
70°-80°	474.2	4.2	3.2
80°-90°	121.5	1.1	0.8
90°-100°	35.5	0.3	0.2
100°-110°	117.9	1.0	0.8
110°-120°	177.5	1.6	1.2
120°-130°	192.8	1.7	1.3
130°-140°	174.0	1.5	1.2
140°-150°	139.6	1.2	0.9
150°-160°	97.0	0.9	0.6
160°-170°	57.0	0.5	0.4
170°-180°	18.6	0.2	0.1
0°-30°	3241.3	28.6	21.6
0°-40°	5222.9	46.0	34.8
0°-60°	8741.3	77.1	58.3
0°-90°	10334.9	91.1	68.9
90°-120°	331.0	2.9	2.2
90°-150°	837.3	7.4	5.6
90°-180°	1010.0	8.9	6.7
0°-180°	11344.8	100.0	75.6

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4453	4453	4453	4453	4453	
5°	4224	4224	4246	4278	4140	402
15°	3896	4006	4078	4078	4098	1112
25°	3564	3645	3643	3766	3878	1640
35°	3005	3116	3171	3301	3352	1870
45°	2393	2411	2492	2651	2682	1821
55°	1628	1696	1750	1855	1947	1455
65°	924	964	981	1026	1055	934
75°	440	444	427	443	439	475
85°	115	108	89	78	83	129
90°	19	7	3	1	1	28
95°	53	42	20	14	9	51
105°	104	127	122	105	84	111
115°	136	172	198	202	178	134
125°	153	192	240	246	222	139
135°	173	194	248	250	231	135
145°	190	208	237	242	229	118
155°	206	208	220	200	217	92
165°	214	195	215	205	196	58
175°	196	184	180	207	199	19
180°	214	214	214	214	214	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4452.9	4452.9	4452.9	4452.9	4452.9
5°	4224.0	4223.5	4246.3	4278.3	4140.2
10°	4110.7	4137.5	4290.5	4181.6	4147.6
15°	3896.3	4006.4	4077.6	4078.3	4098.4
20°	3839.2	3840.0	3879.2	3944.9	3907.0
25°	3564.1	3645.0	3643.4	3766.0	3878.2
30°	3256.7	3357.4	3404.6	3514.3	3572.4
35°	3005.2	3116.3	3170.6	3301.4	3352.2
40°	2676.7	2748.5	2812.2	2953.4	3073.8
45°	2392.8	2411.0	2491.8	2650.8	2681.9
50°	1973.9	2049.3	2134.5	2246.6	2298.1
55°	1628.2	1696.2	1750.4	1854.6	1947.3
60°	1279.7	1320.1	1362.5	1466.9	1527.6
65°	923.5	964.0	981.1	1026.2	1054.6
70°	651.4	654.5	670.0	685.2	671.0
75°	439.8	443.6	427.3	442.6	438.6
80°	268.7	260.2	247.7	246.9	251.5
85°	115.1	108.4	88.7	78.1	83.1
90°	19.3	7.0	3.2	1.2	1.2
95°	53.1	42.0	20.2	13.5	9.2
100°	88.6	89.2	70.6	60.8	43.5
105°	104.0	127.2	121.6	104.6	84.2
110°	123.4	158.8	168.4	150.7	131.3
115°	136.4	172.4	198.0	201.5	178.5
120°	143.1	186.3	222.0	218.2	207.5
125°	153.0	192.2	240.3	246.2	221.9
130°	173.3	198.6	245.2	262.2	229.9
135°	173.3	193.6	248.3	250.3	230.8
140°	175.2	197.0	231.0	260.1	245.0
145°	189.9	207.5	236.7	241.7	229.1
150°	199.8	205.0	218.2	225.7	229.3
155°	206.4	207.9	220.4	199.9	216.7
160°	184.4	198.7	204.6	207.8	203.5
165°	213.7	194.8	215.4	204.7	196.1
170°	204.8	192.8	193.4	189.3	176.8
175°	196.4	184.1	179.9	207.4	199.2
180°	214.5	214.5	214.5	214.5	214.5

(END OF REPORT)