

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: CTL58819

Luminaire Tested: **NB-SW-1T5-DL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58819  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-1T5-DL3  
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**

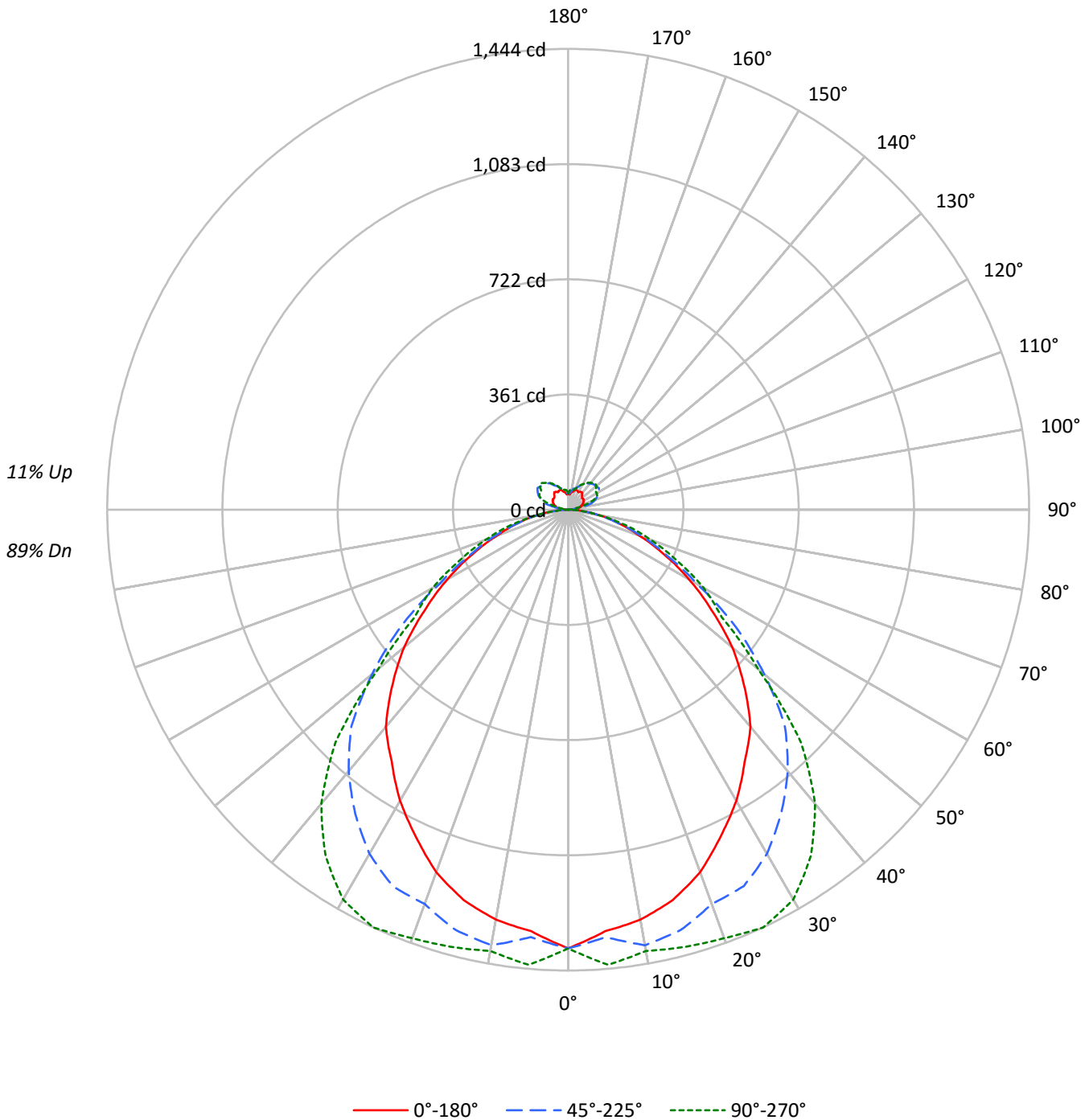
Lumens per Lamp: 5000 (1 lamp)  
Luminaire Lumens: 4123.5 lumens  
Efficiency: 82.5%  
Efficacy: 69.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.45 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4.04' x H: 0.24')  
CIE Type: Semi-Direct

Input Watts (W): 59  
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	96	96	96	96	93	93	93	93	87	87	87		81	81	81		76	76	76	73
1	88	85	81	79	85	82	79	76	77	74	72		72	70	69		68	66	65	63
2	81	74	69	65	78	72	67	63	68	64	61		64	61	58		60	58	55	53
3	74	66	60	55	71	64	58	54	60	55	51		57	53	49		54	50	47	45
4	68	59	52	47	65	57	51	46	54	48	44		51	46	43		48	44	41	39
5	63	53	45	40	60	51	45	40	48	43	38		46	41	37		43	39	36	34
6	58	47	40	35	56	46	40	35	44	38	34		42	37	33		39	35	32	30
7	54	43	36	31	52	42	35	31	40	34	30		38	33	29		36	32	28	27
8	50	39	32	28	48	38	32	27	36	31	27		35	30	26		33	29	25	24
9	47	36	29	25	45	35	29	25	34	28	24		32	27	24		31	26	23	21
10	44	33	27	23	42	32	26	22	31	26	22		30	25	21		28	24	21	19

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

	0°	45°	90°
0°	4880	4880	4880
5°	4701	4681	4962
10°	4654	4771	4791
15°	4581	4676	4802
20°	4470	4526	4836
25°	4307	4532	4925
30°	4175	4421	4881
35°	4011	4245	4693
40°	3923	4048	4398
45°	3694	3802	3926
50°	3462	3358	3109
55°	3126	2869	2495
60°	2814	2266	2240
65°	2472	1824	1865
70°	2109	1479	1515
75°	1841	1110	1155
80°	1500	776	700
85°	1008	359	294



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	130.7	3.2	2.6
10°-20°	381.3	9.2	7.6
20°-30°	594.4	14.4	11.9
30°-40°	721.3	17.5	14.4
40°-50°	712.1	17.3	14.2
50°-60°	546.3	13.2	10.9
60°-70°	352.2	8.5	7.0
70°-80°	180.7	4.4	3.6
80°-90°	46.5	1.1	0.9
90°-100°	16.9	0.4	0.3
100°-110°	63.4	1.5	1.3
110°-120°	90.3	2.2	1.8
120°-130°	90.8	2.2	1.8
130°-140°	78.7	1.9	1.6
140°-150°	58.4	1.4	1.2
150°-160°	35.6	0.9	0.7
160°-170°	18.7	0.5	0.4
170°-180°	5.3	0.1	0.1
0°-30°	1106.5	26.8	22.1
0°-40°	1827.8	44.3	36.6
0°-60°	3086.1	74.8	61.7
0°-90°	3665.5	88.9	73.3
90°-120°	170.6	4.1	3.4
90°-150°	398.5	9.7	8.0
90°-180°	458.0	11.1	9.2
0°-180°	4123.5	100.0	82.5

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1326	1365	1344	1387	1431	126
15°	1266	1290	1363	1402	1418	356
25°	1130	1207	1301	1377	1444	522
35°	964	1035	1163	1273	1325	606
45°	779	860	960	1000	1032	602
55°	548	622	641	582	587	493
65°	332	346	342	366	374	331
75°	164	163	162	174	184	175
85°	42	38	36	33	34	47
90°	6	3	1	1	1	10
95°	21	19	10	8	6	20
105°	41	63	74	65	49	44
115°	52	84	102	106	100	52
125°	58	88	118	124	103	51
135°	61	82	113	125	118	48
145°	69	80	101	108	103	42
155°	66	69	81	81	84	30
165°	58	68	68	67	63	17
175°	48	53	53	54	61	5
180°	51	51	51	51	51	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1374.4	1374.4	1374.4	1374.4	1374.4
5°	1326.0	1365.3	1344.1	1386.9	1431.2
10°	1304.3	1346.1	1385.7	1391.9	1403.8
15°	1266.1	1290.2	1363.4	1401.9	1418.1
20°	1208.6	1267.5	1314.7	1381.6	1428.6
25°	1129.8	1207.3	1301.3	1376.6	1444.3
30°	1053.2	1131.5	1245.0	1344.0	1410.1
35°	963.9	1035.2	1163.0	1273.0	1325.0
40°	888.5	964.9	1069.7	1151.5	1203.2
45°	779.4	860.2	960.0	999.8	1031.5
50°	671.1	755.1	801.9	798.0	777.2
55°	547.7	622.2	640.8	581.9	587.0
60°	437.0	484.6	467.0	460.0	490.0
65°	331.6	345.9	341.8	366.0	374.1
70°	236.2	241.8	247.3	262.3	274.0
75°	163.9	163.1	161.8	174.2	184.5
80°	98.0	97.0	95.6	97.1	96.2
85°	41.5	38.5	35.8	32.7	33.6
90°	5.8	2.8	1.0	0.7	0.8
95°	21.4	19.0	9.5	7.7	6.3
100°	36.0	48.7	37.5	27.8	18.0
105°	41.2	63.1	73.8	64.8	48.6
110°	48.1	74.0	89.8	97.9	81.8
115°	52.3	84.1	102.1	106.0	100.1
120°	56.3	89.2	110.1	113.8	103.2
125°	57.7	87.8	117.8	123.6	102.8
130°	56.8	87.2	113.3	121.5	115.8
135°	61.0	81.8	112.9	124.6	117.9
140°	68.6	78.5	106.6	124.8	109.9
145°	69.1	80.5	101.4	107.8	103.4
150°	63.1	71.0	88.0	95.3	92.0
155°	66.5	68.8	81.4	80.9	83.6
160°	67.2	66.2	71.0	75.5	70.8
165°	58.4	68.3	68.3	66.9	63.1
170°	55.2	56.1	60.1	60.0	63.8
175°	47.7	52.7	52.6	53.8	61.1
180°	50.8	50.8	50.8	50.8	50.8

(END OF REPORT)