

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: CTL58817

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58817
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T5-DL-1
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

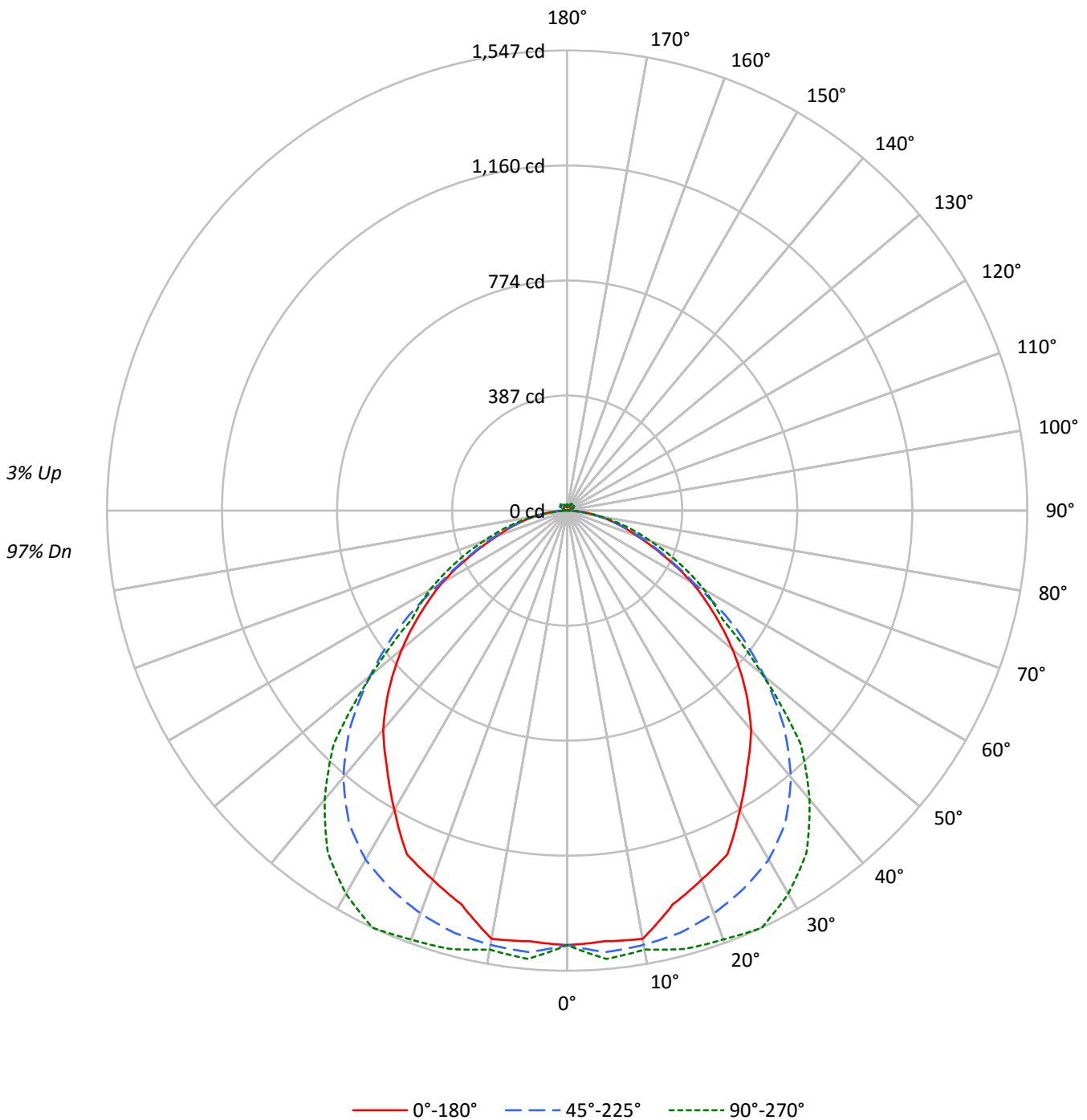
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 4085.2 lumens
Efficiency: 81.7%
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.45 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Direct

Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): 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									
RC	80									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	50	30	10	0													
RCR																																					
0	97	97	97	97	94	94	94	94	90	90	90	85	85	85	81	81	81	79																			
1	89	85	82	79	87	83	80	78	80	77	75	76	74	72	73	71	70	68																			
2	81	75	70	66	79	73	69	65	70	66	63	67	64	61	65	62	59	58																			
3	75	67	60	55	72	65	59	55	62	57	53	60	56	52	58	54	51	49																			
4	69	59	52	47	67	58	52	47	56	50	46	54	49	45	52	48	44	42																			
5	63	53	46	41	61	52	46	41	50	44	40	48	43	39	47	42	39	37																			
6	58	48	41	36	57	47	40	36	45	40	35	44	39	35	42	38	34	33																			
7	54	44	37	32	53	43	36	32	41	35	31	40	35	31	39	34	30	29																			
8	51	40	33	28	49	39	33	28	38	32	28	37	31	28	36	31	27	26																			
9	47	37	30	26	46	36	30	25	35	29	25	34	29	25	33	28	25	23																			
10	44	34	27	23	43	33	27	23	32	27	23	31	26	23	31	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5241	5241	5241
5°	5208	5243	5302
10°	5270	5157	5168
15°	5013	5092	5221
20°	4935	5014	5249
25°	4911	4936	5332
30°	4652	4862	5203
35°	4438	4718	5024
40°	4292	4476	4684
45°	4051	4128	4267
50°	3778	3659	3462
55°	3464	3146	2738
60°	3153	2438	2461
65°	2667	1965	2073
70°	2261	1585	1661
75°	1966	1236	1274
80°	1661	852	824
85°	1176	378	273



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	141.8	3.5	2.8
10°-20°	414.2	10.1	8.3
20°-30°	646.3	15.8	12.9
30°-40°	782.2	19.1	15.6
40°-50°	768.4	18.8	15.4
50°-60°	592.8	14.5	11.9
60°-70°	382.4	9.4	7.6
70°-80°	195.1	4.8	3.9
80°-90°	50.5	1.2	1.0
90°-100°	6.4	0.2	0.1
100°-110°	16.1	0.4	0.3
110°-120°	20.8	0.5	0.4
120°-130°	21.0	0.5	0.4
130°-140°	18.2	0.4	0.4
140°-150°	13.8	0.3	0.3
150°-160°	8.8	0.2	0.2
160°-170°	4.8	0.1	0.1
170°-180°	1.5	0.0	0.0
0°-30°	1202.3	29.4	24.0
0°-40°	1984.5	48.6	39.7
0°-60°	3345.7	81.9	66.9
0°-90°	3973.8	97.3	79.5
90°-120°	43.3	1.1	0.9
90°-150°	96.3	2.4	1.9
90°-180°	111.0	2.7	2.2
0°-180°	4085.2	100.0	81.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1461	1461	1461	1461	1461	
5°	1454	1485	1490	1529	1513	139
15°	1371	1426	1469	1518	1526	390
25°	1275	1305	1403	1500	1547	581
35°	1056	1144	1280	1367	1403	663
45°	846	929	1032	1082	1110	652
55°	601	670	696	638	637	539
65°	354	375	364	405	411	357
75°	174	173	178	183	201	186
85°	48	43	37	36	31	53
90°	5	3	1	0	0	10
95°	11	9	4	3	2	8
105°	12	17	18	16	12	13
115°	12	21	20	25	23	13
125°	15	21	26	27	26	13
135°	14	19	25	29	29	12
145°	16	17	24	24	26	10
155°	14	17	18	21	20	7
165°	17	16	18	17	17	5
175°	14	13	14	16	10	1
180°	21	21	21	21	21	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1460.7	1460.7	1460.7	1460.7	1460.7
5°	1453.6	1484.6	1490.0	1529.0	1513.1
10°	1461.8	1450.1	1482.4	1500.8	1498.5
15°	1371.1	1425.9	1469.3	1518.2	1525.8
20°	1320.6	1371.7	1441.4	1523.0	1534.6
25°	1275.1	1305.2	1402.8	1500.3	1547.3
30°	1161.6	1234.5	1355.2	1461.1	1487.3
35°	1055.6	1143.8	1279.5	1367.4	1403.4
40°	962.5	1038.0	1170.6	1233.7	1268.0
45°	846.2	928.7	1031.6	1081.6	1109.5
50°	725.2	811.0	865.0	864.6	856.2
55°	601.1	669.5	695.6	638.5	637.4
60°	485.0	525.3	497.6	503.4	532.6
65°	354.5	374.8	364.5	405.0	411.4
70°	251.0	263.0	262.4	294.7	297.2
75°	173.5	172.7	178.4	182.6	201.4
80°	107.7	105.1	104.0	103.8	112.1
85°	48.1	43.4	37.3	36.2	30.8
90°	5.0	2.9	1.0	0.5	0.5
95°	11.3	8.7	3.9	2.6	1.6
100°	12.2	16.6	10.7	7.1	5.1
105°	11.7	17.2	17.5	15.7	12.1
110°	13.1	18.6	20.6	20.2	20.8
115°	12.3	21.1	20.1	25.0	23.1
120°	14.3	18.8	26.3	25.6	27.2
125°	15.3	20.7	25.7	26.6	26.4
130°	14.4	20.0	25.6	27.3	29.5
135°	14.4	18.6	24.6	28.6	29.0
140°	16.3	19.3	24.8	28.1	28.3
145°	16.2	17.2	24.0	24.3	25.5
150°	16.8	18.6	21.3	22.8	25.2
155°	14.3	17.0	18.2	20.9	19.5
160°	15.6	16.6	19.4	18.2	20.2
165°	17.2	15.7	18.0	17.3	16.6
170°	13.4	16.4	18.2	14.6	17.4
175°	14.3	13.0	14.5	16.2	10.2
180°	20.9	20.9	20.9	20.9	20.9

(END OF REPORT)