

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: CTL58821

Luminaire Tested: **NB-SW-1T5-DL5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58821
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T5-DL5
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

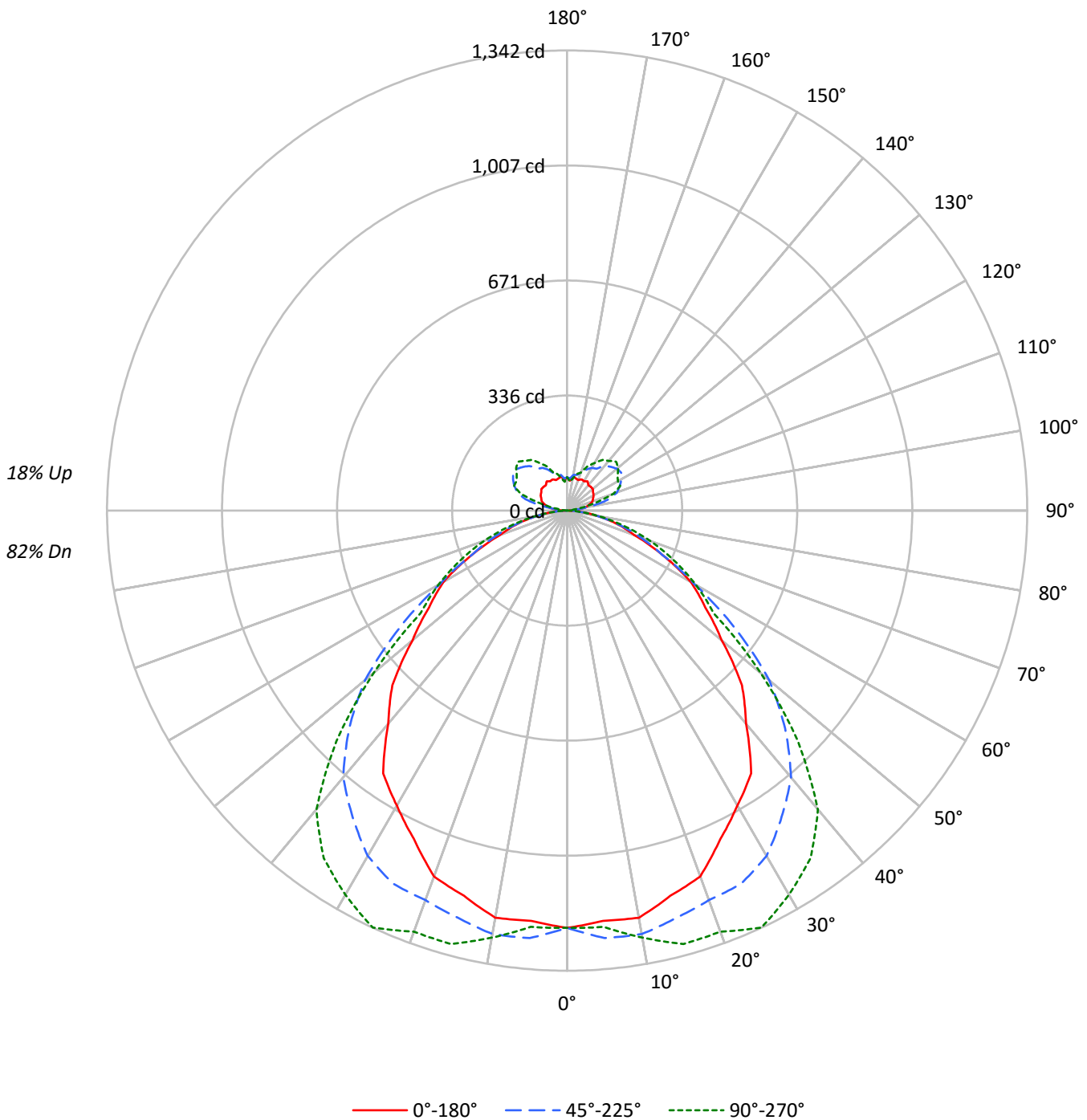
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 4138.9 lumens
Efficiency: 82.8%
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.51 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

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				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	95	95	95	95	91	91	91	91	84	84	84		77	77	77		71	71	71	68
1	87	84	81	78	84	80	78	75	74	72	70		69	67	65		63	62	61	58
2	80	74	68	64	76	71	66	62	66	62	59		61	58	55		56	54	52	49
3	73	65	59	54	70	63	57	52	58	53	50		54	50	47		50	47	44	42
4	67	58	51	46	64	56	50	45	52	47	43		48	44	40		45	41	38	36
5	62	52	45	40	59	50	44	39	47	41	37		43	39	35		41	37	34	32
6	57	47	40	35	55	45	39	34	42	37	32		39	35	31		37	33	30	28
7	53	42	35	31	51	41	34	30	38	33	29		36	31	28		34	30	26	25
8	49	38	32	27	47	37	31	27	35	30	26		33	28	25		31	27	24	22
9	46	35	29	24	44	34	28	24	32	27	23		30	26	22		28	24	21	20
10	43	32	26	22	41	32	26	22	30	25	21		28	23	20		26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4366	4366	4366
5°	4303	4404	4270
10°	4347	4363	4362
15°	4252	4262	4478
20°	4242	4206	4470
25°	4071	4225	4623
30°	3978	4173	4526
35°	3933	4023	4429
40°	3619	3884	4202
45°	3451	3597	3661
50°	3066	3253	2974
55°	2835	2700	2240
60°	2707	2098	2003
65°	2312	1653	1731
70°	1875	1365	1434
75°	1700	1064	1075
80°	1376	719	678
85°	956	324	268



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	118.0	2.9	2.4
10°-20°	349.1	8.4	7.0
20°-30°	548.1	13.2	11.0
30°-40°	676.0	16.3	13.5
40°-50°	666.0	16.1	13.3
50°-60°	503.2	12.2	10.1
60°-70°	324.8	7.8	6.5
70°-80°	168.2	4.1	3.4
80°-90°	43.2	1.0	0.9
90°-100°	26.3	0.6	0.5
100°-110°	104.6	2.5	2.1
110°-120°	148.6	3.6	3.0
120°-130°	147.6	3.6	3.0
130°-140°	126.6	3.1	2.5
140°-150°	91.6	2.2	1.8
150°-160°	57.9	1.4	1.2
160°-170°	30.0	0.7	0.6
170°-180°	9.1	0.2	0.2
0°-30°	1015.2	24.5	20.3
0°-40°	1691.2	40.9	33.8
0°-60°	2860.4	69.1	57.2
0°-90°	3396.6	82.1	67.9
90°-120°	279.5	6.8	5.6
90°-150°	645.2	15.6	12.9
90°-180°	742.0	17.9	14.8
0°-180°	4138.9	100.0	82.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1201	1244	1251	1227	1219	115
15°	1163	1197	1230	1272	1309	330
25°	1057	1083	1201	1266	1342	489
35°	936	984	1091	1176	1237	576
45°	721	810	899	948	952	548
55°	492	567	597	550	521	445
65°	307	325	307	343	344	306
75°	150	147	154	167	170	158
85°	39	35	32	30	30	43
90°	5	3	2	1	1	11
95°	30	30	16	12	8	29
105°	67	104	124	103	80	70
115°	83	137	170	170	171	83
125°	92	141	192	192	179	83
135°	98	126	180	201	202	75
145°	104	117	149	173	180	63
155°	100	115	132	134	143	46
165°	97	103	108	107	110	28
175°	87	89	93	102	84	9
180°	97	97	97	97	97	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.9	1216.9	1216.9	1216.9	1216.9
5°	1200.9	1243.6	1251.4	1227.3	1218.7
10°	1205.6	1233.5	1254.1	1268.1	1264.7
15°	1163.1	1196.9	1229.7	1271.9	1308.7
20°	1135.3	1165.3	1209.1	1268.4	1306.7
25°	1057.0	1083.4	1200.6	1265.7	1341.5
30°	993.4	1046.2	1163.2	1255.5	1293.8
35°	935.6	984.4	1090.8	1176.0	1237.3
40°	811.5	897.7	1015.9	1084.5	1137.6
45°	720.8	809.7	898.9	947.7	951.9
50°	588.4	675.4	769.0	744.9	735.6
55°	491.9	567.3	596.9	550.3	521.4
60°	416.4	445.9	428.2	416.7	433.5
65°	307.3	325.3	306.7	343.4	343.5
70°	208.1	228.3	226.0	247.2	256.6
75°	150.0	146.7	153.5	167.3	170.0
80°	89.2	91.0	87.7	91.9	92.2
85°	39.1	35.0	32.0	30.4	30.3
90°	5.3	3.1	1.5	1.1	1.2
95°	30.3	29.6	16.4	12.4	7.8
100°	53.5	78.6	65.0	38.9	26.0
105°	67.0	104.3	124.0	103.2	80.2
110°	78.9	127.7	154.2	161.1	143.3
115°	83.1	136.6	169.5	170.0	170.8
120°	89.1	140.6	182.3	183.3	170.6
125°	92.3	141.2	192.5	192.5	179.3
130°	97.8	135.6	189.6	202.2	194.2
135°	97.6	126.0	180.4	201.1	201.8
140°	96.4	120.6	169.5	192.0	188.9
145°	103.8	116.6	149.0	172.9	180.5
150°	98.8	111.1	143.8	157.0	160.0
155°	100.4	115.4	131.5	134.5	143.0
160°	94.6	105.6	115.1	118.1	117.9
165°	97.2	103.0	108.0	106.8	110.5
170°	101.1	94.9	106.0	100.5	94.9
175°	87.4	88.8	93.4	102.1	84.1
180°	97.1	97.1	97.1	97.1	97.1

(END OF REPORT)