

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: CTL58820

Luminaire Tested: **NB-SW-1T5-DL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58820
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T5-DL4
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

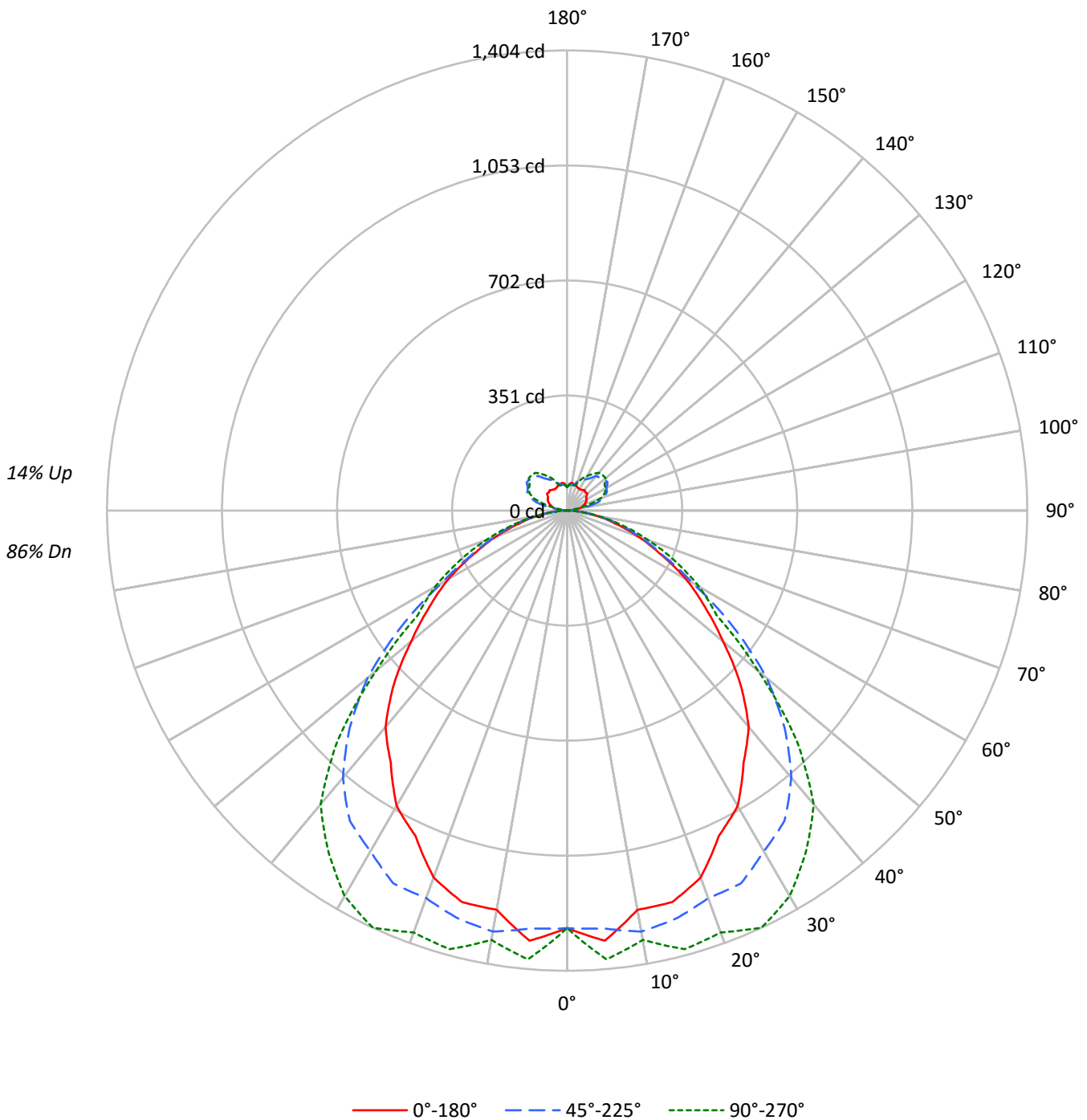
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 4124.9 lumens
Efficiency: 82.5%
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.49 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): 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	92	92	92	92	85	85	85		79	79	79		74	74	74	71
1	88	84	81	78	84	81	78	76	76	73	71		70	69	67		66	64	63	61
2	80	74	69	64	77	71	67	63	67	63	60		62	59	57		58	56	54	51
3	73	65	59	54	71	63	58	53	59	54	51		55	52	48		52	49	46	44
4	67	58	51	46	65	56	50	45	53	48	43		50	45	42		47	43	40	38
5	62	52	45	40	60	51	44	39	48	42	38		45	40	36		42	38	35	33
6	57	47	40	35	55	46	39	34	43	37	33		41	36	32		38	34	31	29
7	53	43	36	31	51	41	35	30	39	33	29		37	32	28		35	31	27	26
8	50	39	32	28	48	38	31	27	36	30	26		34	29	25		32	28	25	23
9	46	36	29	25	44	35	29	24	33	27	24		31	26	23		30	25	22	21
10	43	33	27	22	42	32	26	22	30	25	21		29	24	21		27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4572	4572	4572
5°	4720	4503	4816
10°	4459	4537	4588
15°	4521	4464	4741
20°	4452	4377	4685
25°	4218	4417	4838
30°	4167	4305	4750
35°	3946	4263	4547
40°	3843	4068	4324
45°	3576	3754	3807
50°	3234	3360	3077
55°	2956	2798	2390
60°	2722	2159	2150
65°	2362	1739	1824
70°	2063	1418	1469
75°	1701	1159	1106
80°	1410	766	698
85°	973	353	285



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	124.3	3.0	2.5
10°-20°	365.3	8.9	7.3
20°-30°	574.5	13.9	11.5
30°-40°	705.0	17.1	14.1
40°-50°	692.7	16.8	13.9
50°-60°	523.6	12.7	10.5
60°-70°	338.7	8.2	6.8
70°-80°	175.9	4.3	3.5
80°-90°	44.6	1.1	0.9
90°-100°	20.4	0.5	0.4
100°-110°	81.5	2.0	1.6
110°-120°	114.8	2.8	2.3
120°-130°	115.2	2.8	2.3
130°-140°	100.3	2.4	2.0
140°-150°	72.3	1.8	1.4
150°-160°	44.9	1.1	0.9
160°-170°	23.6	0.6	0.5
170°-180°	7.4	0.2	0.1
0°-30°	1064.0	25.8	21.3
0°-40°	1769.0	42.9	35.4
0°-60°	2985.3	72.4	59.7
0°-90°	3544.5	85.9	70.9
90°-120°	216.7	5.3	4.3
90°-150°	504.6	12.2	10.1
90°-180°	580.0	14.1	11.6
0°-180°	4124.9	100.0	82.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1317	1295	1280	1317	1374	122
15°	1237	1250	1288	1325	1386	347
25°	1095	1172	1255	1327	1404	510
35°	939	1030	1156	1229	1270	592
45°	747	835	938	975	990	574
55°	513	590	619	565	556	462
65°	314	336	323	358	362	316
75°	150	161	167	169	175	164
85°	40	36	35	32	32	44
90°	5	3	1	1	1	10
95°	25	24	12	10	7	22
105°	50	83	97	82	65	51
115°	64	106	134	130	127	63
125°	70	109	151	150	139	65
135°	79	100	141	160	153	62
145°	77	89	120	141	137	49
155°	77	83	100	105	108	36
165°	82	82	79	82	78	23
175°	82	74	78	77	79	8
180°	72	72	72	72	72	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274.2	1274.2	1274.2	1274.2	1274.2
5°	1317.3	1294.7	1279.6	1316.8	1374.4
10°	1236.7	1296.2	1304.2	1321.5	1330.1
15°	1236.7	1250.1	1288.2	1325.2	1385.5
20°	1191.4	1211.1	1258.2	1332.6	1369.6
25°	1095.1	1171.6	1255.1	1326.6	1404.0
30°	1040.5	1096.3	1200.0	1301.2	1357.8
35°	938.6	1030.0	1156.1	1228.7	1270.3
40°	861.8	941.0	1064.0	1139.1	1170.5
45°	747.0	835.3	938.3	975.3	989.8
50°	620.7	712.8	794.4	770.6	761.1
55°	513.0	589.5	618.6	564.7	556.2
60°	418.7	463.7	440.6	443.7	465.3
65°	314.0	336.2	322.6	357.5	361.9
70°	229.0	235.1	234.8	261.8	262.9
75°	150.1	161.2	167.3	168.6	174.8
80°	91.4	94.2	93.4	89.9	95.0
85°	39.8	35.5	34.9	31.7	32.2
90°	4.7	3.1	1.4	0.8	0.9
95°	25.4	23.7	11.9	9.5	6.7
100°	38.7	59.8	49.5	31.6	19.1
105°	49.5	82.6	97.2	82.1	64.8
110°	56.5	100.3	118.5	125.9	108.9
115°	63.7	106.1	134.1	130.3	126.7
120°	68.8	110.1	138.2	143.4	135.0
125°	70.2	109.1	150.6	149.8	139.3
130°	80.5	107.8	147.9	161.5	153.3
135°	78.6	100.3	140.9	160.5	153.1
140°	81.9	96.9	138.1	149.8	150.5
145°	77.0	89.4	119.7	140.6	136.6
150°	75.4	92.2	109.2	124.0	121.2
155°	76.8	82.9	100.5	105.4	108.1
160°	80.8	82.8	95.6	95.8	87.6
165°	82.0	82.3	78.6	82.4	78.4
170°	86.0	81.0	81.9	73.1	80.3
175°	81.6	73.6	77.7	76.8	79.2
180°	71.5	71.5	71.5	71.5	71.5

(END OF REPORT)