

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: CTL58853

Luminaire Tested: **NB-SW-3T5-DL6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58853
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-DL6
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

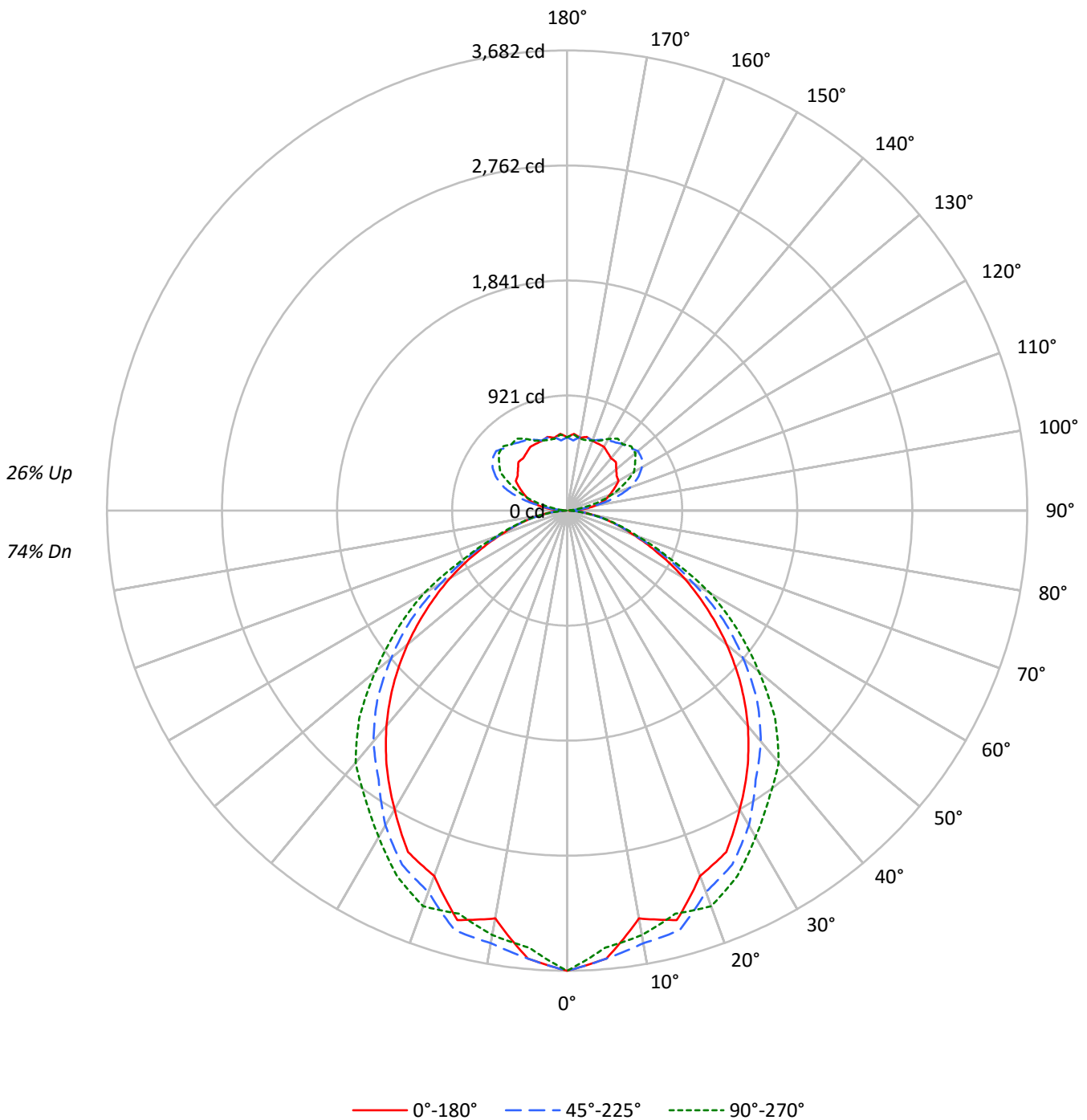
Lumens per Lamp: 5000 (3 lamps)
Luminaire Lumens: 11847.3 lumens
Efficiency: 79.0%
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.22 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 177
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	89	89	89	89	85	85	85	85	76	76	76		69	69	69		62	62	62	59
1	82	79	76	73	78	75	72	70	68	66	64		61	60	58		55	54	53	50
2	75	69	64	60	71	66	61	58	60	56	53		54	52	49		49	47	45	43
3	69	61	55	50	65	58	53	49	53	49	45		48	45	42		44	41	39	36
4	63	54	48	43	60	52	46	42	47	43	39		43	39	36		39	36	34	31
5	58	49	42	37	55	46	40	36	43	38	34		39	35	32		36	32	30	27
6	53	44	37	32	51	42	36	32	39	33	30		35	31	28		32	29	26	24
7	50	40	33	29	47	38	32	28	35	30	26		32	28	25		30	26	23	21
8	46	36	30	26	44	35	29	25	32	27	24		30	25	22		27	24	21	19
9	43	33	27	23	41	32	26	22	29	25	21		27	23	20		25	22	19	17
10	40	30	25	21	38	29	24	20	27	22	19		25	21	18		23	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13212	13212	13212
5°	12892	12665	12299
10°	11946	12227	11894
15°	12400	12049	11429
20°	11623	11295	11524
25°	11607	10997	11111
30°	11060	10434	10549
35°	10576	9696	10076
40°	10033	9215	9725
45°	9403	8603	9048
50°	8683	7774	8093
55°	7868	6904	7149
60°	7033	5726	6110
65°	5996	4657	4539
70°	5049	3464	3344
75°	4272	2630	2514
80°	3579	1776	1660
85°	2278	921	581



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	341.3	2.9	2.3
10°-20°	959.2	8.1	6.4
20°-30°	1432.3	12.1	9.5
30°-40°	1671.3	14.1	11.1
40°-50°	1655.3	14.0	11.0
50°-60°	1350.9	11.4	9.0
60°-70°	863.5	7.3	5.8
70°-80°	416.4	3.5	2.8
80°-90°	107.7	0.9	0.7
90°-100°	97.2	0.8	0.6
100°-110°	367.2	3.1	2.4
110°-120°	552.1	4.7	3.7
120°-130°	589.3	5.0	3.9
130°-140°	523.1	4.4	3.5
140°-150°	407.8	3.4	2.7
150°-160°	285.6	2.4	1.9
160°-170°	170.9	1.4	1.1
170°-180°	56.2	0.5	0.4
0°-30°	2732.8	23.1	18.2
0°-40°	4404.0	37.2	29.4
0°-60°	7410.2	62.5	49.4
0°-90°	8797.8	74.3	58.7
90°-120°	1016.6	8.6	6.8
90°-150°	2536.7	21.4	16.9
90°-180°	3049.0	25.7	20.3
0°-180°	11847.3	100.0	79.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3682	3682	3682	3682	3682	
5°	3598	3588	3599	3690	3510	334
15°	3392	3346	3477	3459	3340	934
25°	3014	3081	3125	3138	3225	1373
35°	2516	2620	2629	2716	2815	1572
45°	1964	2087	2150	2246	2353	1514
55°	1365	1379	1526	1638	1664	1225
65°	797	825	864	890	901	800
75°	377	384	380	392	397	408
85°	93	90	91	75	66	109
90°	16	9	4	3	3	35
95°	133	109	62	40	24	124
105°	310	423	398	314	255	320
115°	415	582	626	571	506	412
125°	483	627	728	705	664	438
135°	551	598	706	776	725	418
145°	565	596	666	697	703	355
155°	590	593	625	632	616	273
165°	610	582	605	639	583	170
175°	616	550	563	591	610	58
180°	586	586	586	586	586	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3682.4	3682.4	3682.4	3682.4	3682.4
5°	3598.3	3588.2	3599.0	3690.1	3510.1
10°	3313.6	3505.2	3514.8	3582.5	3448.5
15°	3391.9	3345.7	3476.7	3459.3	3340.1
20°	3110.5	3197.0	3247.0	3334.6	3368.8
25°	3013.8	3081.2	3125.1	3137.8	3224.6
30°	2761.9	2922.7	2908.4	2971.0	3015.6
35°	2515.7	2620.4	2629.4	2715.7	2814.9
40°	2249.6	2355.2	2410.2	2529.6	2632.8
45°	1964.1	2087.0	2150.1	2246.5	2352.6
50°	1666.5	1704.8	1837.8	1908.1	2001.7
55°	1365.4	1379.1	1526.3	1638.2	1664.1
60°	1081.7	1113.9	1168.5	1282.9	1322.4
65°	797.0	825.4	863.9	890.0	900.8
70°	560.5	589.7	573.4	601.2	598.4
75°	377.0	384.5	379.6	391.6	397.4
80°	232.0	226.8	216.7	213.3	225.9
85°	93.2	90.4	90.9	75.0	65.6
90°	15.8	9.2	3.6	3.2	3.2
95°	133.1	109.0	62.4	39.7	24.2
100°	229.7	278.4	217.8	158.5	108.9
105°	310.5	422.8	397.8	313.6	254.6
110°	359.1	529.7	534.1	469.6	392.4
115°	415.3	582.4	625.6	571.1	505.6
120°	474.4	618.6	690.2	668.9	617.4
125°	483.1	626.6	728.3	704.6	663.5
130°	512.7	624.6	740.6	747.7	713.3
135°	550.8	598.1	706.5	776.5	725.3
140°	546.8	600.0	693.0	726.0	692.7
145°	565.0	596.1	666.3	697.1	703.0
150°	588.9	616.2	651.8	663.1	661.3
155°	589.6	593.1	625.0	632.2	616.4
160°	592.0	586.8	595.9	619.5	595.9
165°	609.7	581.7	605.4	638.7	583.1
170°	591.2	631.9	597.2	592.4	583.2
175°	616.4	550.3	562.6	590.8	610.2
180°	586.3	586.3	586.3	586.3	586.3

(END OF REPORT)