

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: CTL58834

Luminaire Tested: **NB-SW-2T5-DL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58834
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-2T5-DL2
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

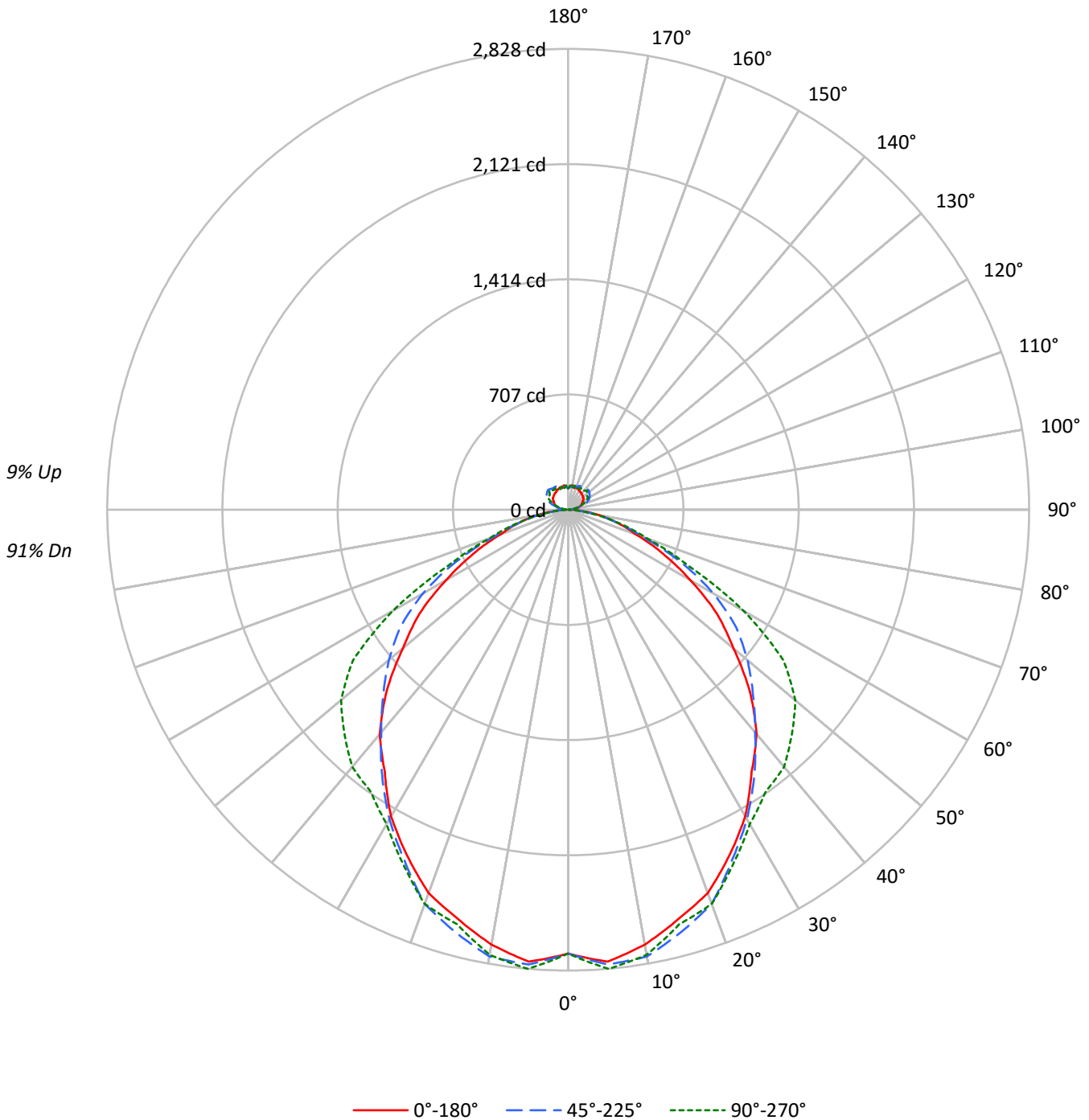
Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 7705.0 lumens
Efficiency: 77.0%
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.22 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Direct

Input Watts (W): 118
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	90	90	90	90	87	87	87	87	82	82	82	77	77	77	72	72	72	70		
1	83	79	76	74	80	77	74	72	72	70	68	68	67	65	64	63	62	60		
2	76	70	65	61	73	68	63	59	64	60	57	60	57	55	57	55	52	50		
3	69	62	56	51	67	60	54	50	57	52	48	54	50	47	51	48	45	43		
4	63	55	48	43	61	53	47	43	50	45	41	48	44	40	45	42	39	37		
5	58	49	42	37	56	48	42	37	45	40	36	43	38	35	41	37	34	32		
6	54	44	38	33	52	43	37	32	41	36	32	39	34	31	37	33	30	28		
7	50	40	34	29	48	39	33	29	37	32	28	36	31	27	34	30	27	25		
8	47	37	30	26	45	36	30	26	34	29	25	33	28	24	31	27	24	22		
9	44	34	27	23	42	33	27	23	31	26	23	30	25	22	29	25	22	20		
10	41	31	25	21	40	30	25	21	29	24	21	28	23	20	27	23	20	18		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9775	9775	9775
5°	9974	9859	9910
10°	9771	9684	9565
15°	9516	9295	9013
20°	9354	8955	8806
25°	9013	8361	8260
30°	8700	7867	7794
35°	8250	7338	7560
40°	8019	6820	7611
45°	7544	6415	7468
50°	6892	6069	7353
55°	6424	5688	6925
60°	5623	5045	5750
65°	4846	4126	4087
70°	3976	2926	2871
75°	3538	2158	2061
80°	2983	1426	1227
85°	1865	635	446



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	263.8	3.4	2.6
10°-20°	752.6	9.8	7.5
20°-30°	1097.4	14.2	11.0
30°-40°	1267.1	16.4	12.7
40°-50°	1304.4	16.9	13.0
50°-60°	1147.2	14.9	11.5
60°-70°	743.8	9.7	7.4
70°-80°	337.7	4.4	3.4
80°-90°	83.8	1.1	0.8
90°-100°	25.4	0.3	0.3
100°-110°	84.2	1.1	0.8
110°-120°	121.9	1.6	1.2
120°-130°	132.9	1.7	1.3
130°-140°	121.9	1.6	1.2
140°-150°	96.8	1.3	1.0
150°-160°	69.4	0.9	0.7
160°-170°	41.5	0.5	0.4
170°-180°	13.1	0.2	0.1
0°-30°	2113.8	27.4	21.1
0°-40°	3380.9	43.9	33.8
0°-60°	5832.5	75.7	58.3
0°-90°	6997.8	90.8	70.0
90°-120°	231.5	3.0	2.3
90°-150°	583.1	7.6	5.8
90°-180°	707.0	9.2	7.1
0°-180°	7705.0	100.0	77.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2724	2724	2724	2724	2724	
5°	2784	2693	2802	2821	2828	262
15°	2603	2698	2682	2700	2634	736
25°	2340	2401	2376	2367	2397	1079
35°	1962	1992	1990	2025	2112	1236
45°	1576	1580	1603	1826	1942	1210
55°	1115	1086	1258	1461	1612	988
65°	644	658	766	827	811	642
75°	312	300	312	310	326	332
85°	76	74	63	56	50	90
90°	11	4	2	1	1	18
95°	36	27	17	11	9	33
105°	72	92	83	81	62	76
115°	95	120	138	129	117	94
125°	115	145	161	163	143	101
135°	124	139	173	182	164	96
145°	131	146	160	172	150	83
155°	140	144	161	150	144	65
165°	136	152	143	140	153	40
175°	142	126	141	122	150	14
180°	132	132	132	132	132	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2724.5	2724.5	2724.5	2724.5	2724.5
5°	2783.9	2693.3	2801.5	2820.6	2828.5
10°	2710.1	2705.8	2783.8	2782.8	2773.3
15°	2602.8	2698.1	2682.1	2700.0	2634.1
20°	2503.1	2559.9	2574.1	2530.5	2574.5
25°	2340.1	2401.0	2375.9	2367.2	2397.2
30°	2172.6	2247.4	2192.7	2192.3	2228.1
35°	1962.5	1991.7	1989.8	2024.6	2112.0
40°	1798.2	1799.1	1783.8	1926.7	2060.3
45°	1575.8	1580.4	1603.3	1825.6	1941.7
50°	1322.8	1336.0	1434.8	1694.6	1818.7
55°	1114.7	1086.2	1257.6	1460.9	1612.0
60°	864.9	880.7	1029.6	1179.0	1244.5
65°	644.1	657.8	765.5	826.7	811.0
70°	441.4	460.8	484.4	513.0	513.8
75°	312.2	300.4	311.5	310.4	325.8
80°	193.4	175.8	174.0	173.9	166.9
85°	76.3	74.4	62.7	56.2	50.4
90°	11.0	4.5	2.3	1.4	0.8
95°	35.6	27.3	16.7	11.4	9.2
100°	56.8	60.9	52.9	43.6	36.2
105°	71.6	92.3	83.0	80.9	62.0
110°	88.8	112.4	114.8	108.8	91.4
115°	94.6	120.3	137.6	128.8	116.9
120°	103.1	132.9	151.7	148.9	142.1
125°	115.2	144.6	160.6	163.1	143.1
130°	119.3	144.9	168.6	174.3	146.5
135°	124.0	139.0	173.2	182.2	164.0
140°	128.6	141.2	166.3	172.6	153.5
145°	130.6	146.0	160.5	172.5	149.5
150°	136.4	149.6	161.8	150.4	152.2
155°	140.2	143.9	161.1	150.0	144.2
160°	145.2	143.6	151.2	162.9	134.9
165°	136.5	152.4	143.2	139.9	152.9
170°	152.4	152.0	141.5	144.2	134.5
175°	142.0	126.0	140.7	121.9	149.9
180°	131.5	131.5	131.5	131.5	131.5

(END OF REPORT)