

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: CTL58865

Luminaire Tested: **NB-SW-3T5-DXD-1 INBOARD ONLY**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58865
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-DXD-1 INBOARD ONLY
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & LAMP ISOLATORS

Light Source: 54 WATT T5 LAMP
FP54T5/835HO. LUMEN RATING = 5000 LMS.
Ballast/Driver: -

Summary

Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 4794.6 lumens
Efficiency: 95.9%
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.92 / 1.66
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: General Diffuse

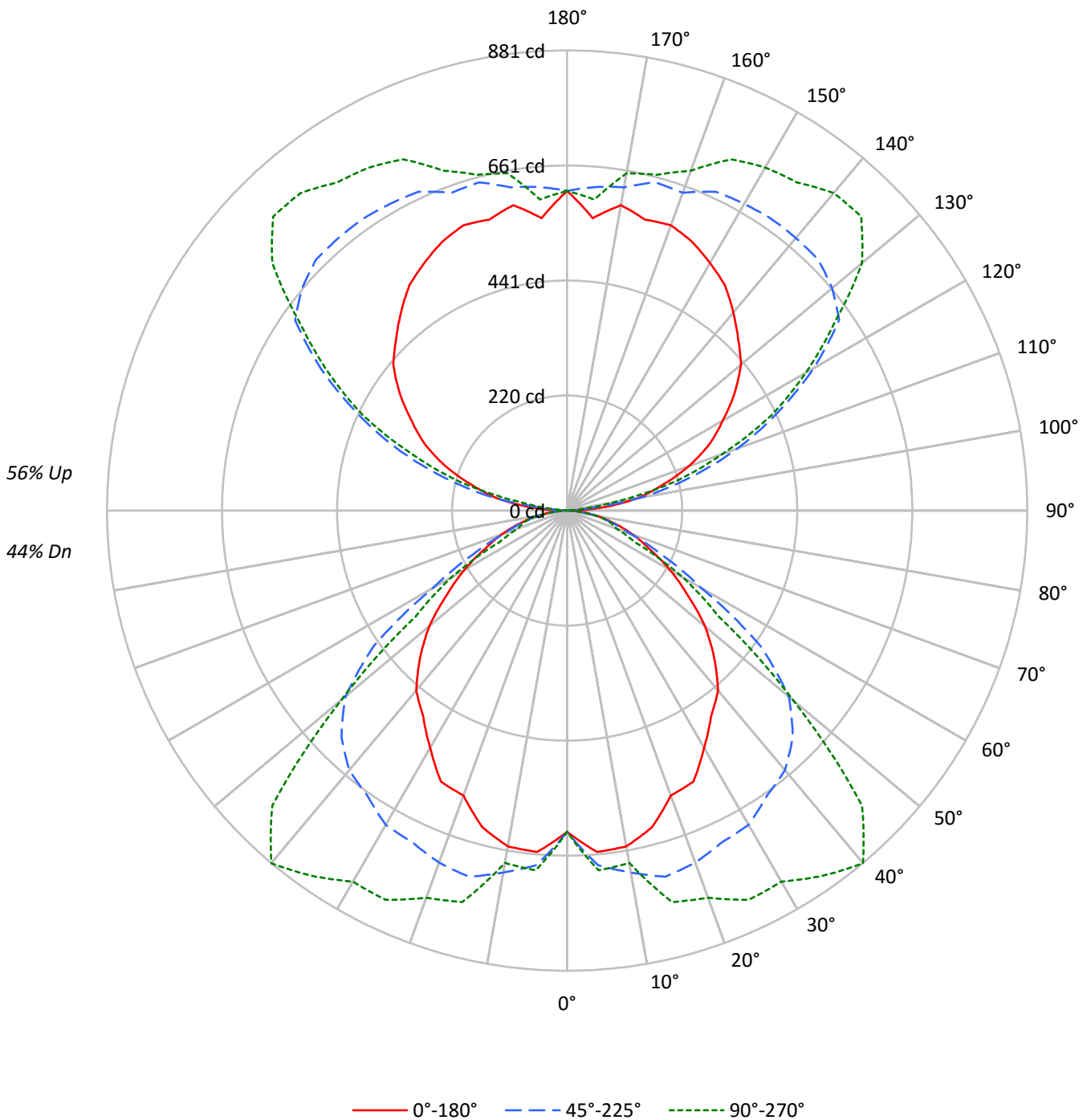
Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	93	93	93	93	77	77	77	62	62	62	49	49	49	42
1	93	89	85	82	85	81	78	76	68	66	64	55	54	52	43	42	42	36
2	85	78	72	67	77	71	66	62	60	56	53	49	46	44	38	37	35	31
3	77	68	62	56	70	63	57	52	53	48	45	43	40	37	34	32	30	26
4	71	60	53	47	64	56	49	44	47	42	38	38	35	32	30	28	26	22
5	65	54	46	41	59	50	43	38	42	37	33	34	31	28	27	25	23	19
6	60	48	41	35	54	44	38	33	37	32	28	31	27	24	25	22	20	17
7	55	43	36	31	50	40	33	29	34	29	25	28	24	21	23	20	17	15
8	51	39	32	27	47	36	30	25	31	26	22	26	22	19	21	18	16	13
9	47	36	29	24	43	33	27	22	28	23	20	23	20	17	19	16	14	12
10	44	33	26	21	40	30	24	20	26	21	17	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2207	2207	2207
5°	2350	2399	2423
10°	2354	2448	2363
15°	2294	2515	2655
20°	2169	2495	2698
25°	2205	2466	2833
30°	2100	2492	2869
35°	2020	2458	3056
40°	2004	2480	3256
45°	1905	2446	3071
50°	1795	2343	2284
55°	1618	2043	1523
60°	1477	1453	1179
65°	1305	1073	721
70°	1203	768	559
75°	1042	602	533
80°	856	451	420
85°	565	223	161



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	64.2	1.3	1.3
10°-20°	198.6	4.1	4.0
20°-30°	321.3	6.7	6.4
30°-40°	421.2	8.8	8.4
40°-50°	458.9	9.6	9.2
50°-60°	340.9	7.1	6.8
60°-70°	188.7	3.9	3.8
70°-80°	94.2	2.0	1.9
80°-90°	27.5	0.6	0.5
90°-100°	53.3	1.1	1.1
100°-110°	243.0	5.1	4.9
110°-120°	408.1	8.5	8.2
120°-130°	505.1	10.5	10.1
130°-140°	503.8	10.5	10.1
140°-150°	419.8	8.8	8.4
150°-160°	306.9	6.4	6.1
160°-170°	180.8	3.8	3.6
170°-180°	58.5	1.2	1.2
0°-30°	584.1	12.2	11.7
0°-40°	1005.3	21.0	20.1
0°-60°	1805.1	37.6	36.1
0°-90°	2115.5	44.1	42.3
90°-120°	704.4	14.7	14.1
90°-150°	2133.0	44.5	42.7
90°-180°	2679.0	55.9	53.6
0°-180°	4794.6	100.0	95.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	656	651	682	698	691	62
15°	628	668	726	736	776	176
25°	572	619	701	767	822	260
35°	481	568	667	786	854	303
45°	398	468	611	764	798	307
55°	281	357	452	377	354	253
65°	173	209	199	170	143	175
75°	92	93	87	88	84	98
85°	23	24	22	20	18	27
90°	7	3	1	1	1	14
95°	67	64	19	5	3	71
105°	188	258	242	221	213	201
115°	301	411	446	432	431	295
125°	391	504	636	634	624	350
135°	463	557	680	761	796	359
145°	527	587	682	757	767	329
155°	567	618	674	711	742	261
165°	577	614	650	662	665	165
175°	562	602	622	618	598	55
180°	612	612	612	612	612	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	615.1	615.1	615.1	615.1	615.1
5°	656.0	650.7	681.6	698.0	691.4
10°	652.8	667.2	703.6	706.7	685.0
15°	627.6	668.2	725.8	736.2	776.0
20°	580.5	643.6	717.1	747.5	788.7
25°	572.4	618.9	700.8	766.6	822.3
30°	524.4	598.1	694.7	785.3	820.3
35°	480.6	568.5	666.6	785.5	853.6
40°	449.4	509.1	648.7	787.6	881.4
45°	397.9	468.0	611.2	763.8	798.5
50°	344.6	418.0	554.0	587.6	564.8
55°	280.8	357.0	451.7	377.0	354.4
60°	227.1	288.4	296.5	260.7	255.1
65°	173.4	209.3	199.1	170.2	143.1
70°	133.5	141.0	127.2	108.3	100.1
75°	92.0	92.7	86.9	88.5	84.3
80°	55.5	56.1	55.0	55.3	57.1
85°	23.1	23.6	22.0	20.0	18.2
90°	7.4	2.6	0.8	0.7	0.9
95°	66.8	63.8	19.0	5.1	3.2
100°	137.0	166.0	143.4	108.9	86.1
105°	188.4	257.7	241.9	221.3	212.6
110°	247.3	349.1	346.5	334.0	315.5
115°	300.6	411.1	445.5	432.5	431.0
120°	343.9	461.6	544.8	528.4	527.6
125°	391.3	504.3	635.8	633.6	623.6
130°	434.6	530.4	662.2	712.2	737.1
135°	463.3	557.2	679.7	761.4	796.1
140°	494.9	578.7	681.1	764.5	793.7
145°	526.6	586.6	681.8	756.9	767.0
150°	547.1	620.8	677.9	728.5	758.5
155°	567.2	618.3	673.6	710.8	742.0
160°	581.2	621.0	647.5	700.3	692.3
165°	576.7	613.5	650.5	661.6	665.4
170°	593.7	594.2	628.5	640.4	655.7
175°	562.0	601.7	621.8	617.8	597.7
180°	612.1	612.1	612.1	612.1	612.1

(END OF REPORT)