

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: CTL58867

Luminaire Tested: **NB-SW-3T5-DXD-3 ALL LAMPS ON**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58867
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-DXD-3 ALL LAMPS ON
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 (3 lamps)
Luminaire Lumens: 10128.7 lumens
Efficiency: 67.5%
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.11 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

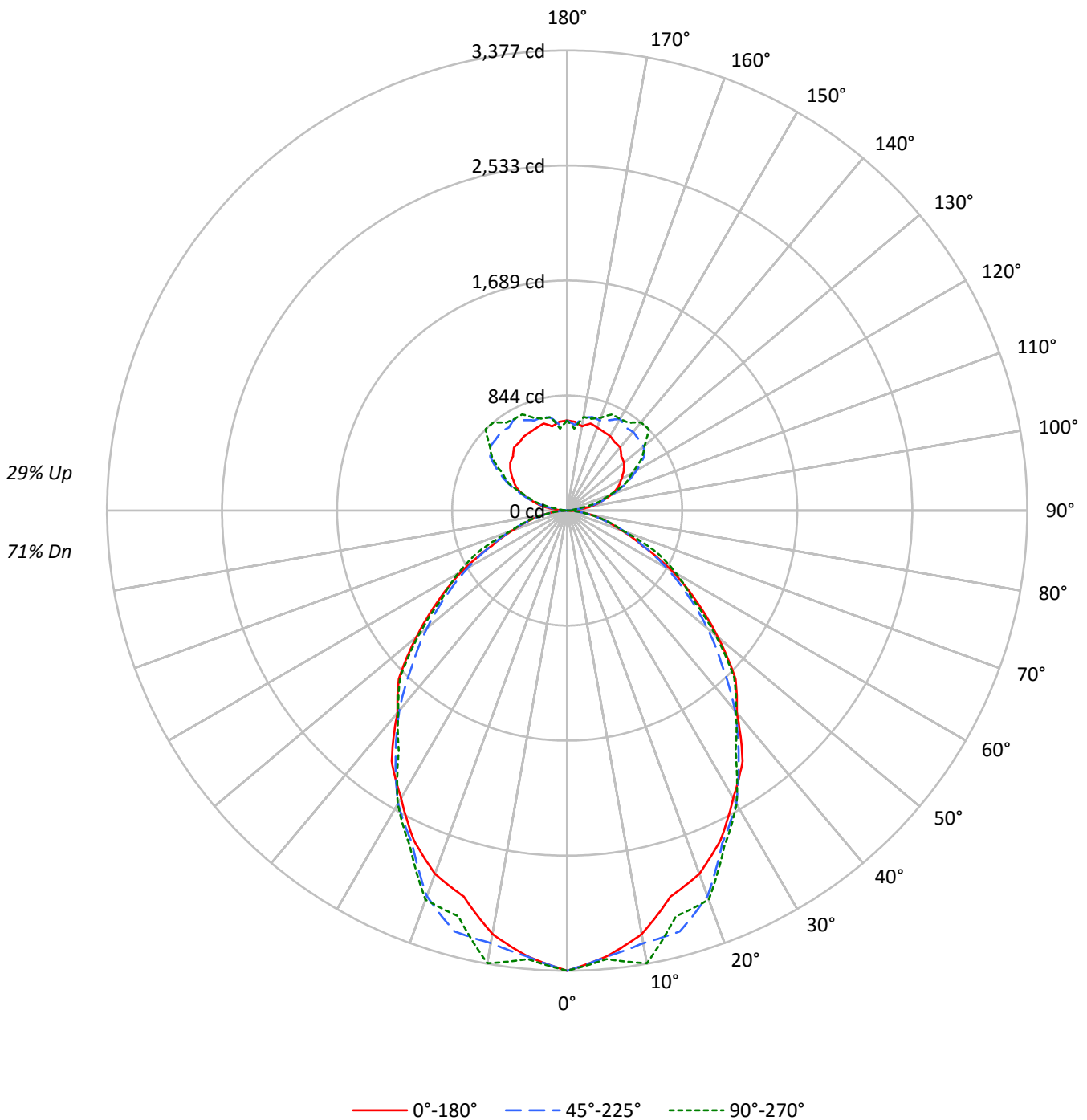
Input Watts (W): 177
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	76	76	76	72	72	72	72	64	64	64		57	57	57		51	51	51	48
1	70	67	64	62	66	63	61	59	57	55	54		51	50	49		46	45	44	41
2	64	59	55	51	60	56	52	49	50	48	45		45	43	41		41	39	38	35
3	59	52	47	43	55	50	45	42	45	41	39		41	38	36		37	34	33	30
4	54	47	41	37	51	44	40	36	40	36	33		36	33	31		33	30	28	26
5	50	42	36	32	47	40	35	31	36	32	29		33	30	27		30	27	25	23
6	46	38	32	28	43	36	31	27	33	29	26		30	27	24		27	24	22	21
7	43	34	29	25	40	33	28	24	30	26	23		27	24	21		25	22	20	18
8	40	31	26	22	38	30	25	22	28	23	21		25	22	19		23	20	18	17
9	37	29	24	20	35	28	23	20	25	21	19		23	20	17		21	19	16	15
10	35	27	22	18	33	25	21	18	24	20	17		22	18	16		20	17	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12118	12118	12118
5°	11776	11567	11579
10°	11377	11213	11637
15°	10721	11078	10549
20°	10599	10473	10395
25°	10267	9477	9393
30°	9760	8904	8702
35°	9437	8094	7714
40°	8638	7324	7125
45°	8369	6443	6668
50°	7520	5680	5743
55°	6664	4873	4803
60°	5794	4126	4279
65°	4583	3333	3636
70°	3833	2692	2467
75°	3261	1960	1951
80°	2724	1358	1202
85°	1804	653	512



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	311.3	3.1	2.1
10°-20°	879.9	8.7	5.9
20°-30°	1255.3	12.4	8.4
30°-40°	1384.4	13.7	9.2
40°-50°	1288.9	12.7	8.6
50°-60°	1005.3	9.9	6.7
60°-70°	644.7	6.4	4.3
70°-80°	314.8	3.1	2.1
80°-90°	82.8	0.8	0.6
90°-100°	59.4	0.6	0.4
100°-110°	269.5	2.7	1.8
110°-120°	455.9	4.5	3.0
120°-130°	565.0	5.6	3.8
130°-140°	560.5	5.5	3.7
140°-150°	460.3	4.5	3.1
150°-160°	331.8	3.3	2.2
160°-170°	195.9	1.9	1.3
170°-180°	63.0	0.6	0.4
0°-30°	2446.4	24.2	16.3
0°-40°	3830.8	37.8	25.5
0°-60°	6125.0	60.5	40.8
0°-90°	7167.4	70.8	47.8
90°-120°	784.9	7.7	5.2
90°-150°	2370.7	23.4	15.8
90°-180°	2961.0	29.2	19.7
0°-180°	10128.7	100.0	67.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3377	3377	3377	3377	3377	
5°	3287	3190	3287	3191	3305	310
15°	2932	3086	3197	3221	3083	837
25°	2666	2775	2693	2723	2726	1223
35°	2245	2308	2195	2152	2155	1387
45°	1748	1716	1610	1634	1734	1327
55°	1156	1156	1077	1088	1118	1039
65°	609	611	618	688	722	627
75°	288	292	283	291	308	311
85°	74	76	64	59	58	84
90°	13	4	2	1	1	25
95°	84	74	20	6	3	94
105°	258	299	258	235	233	276
115°	415	488	481	445	472	405
125°	507	595	688	682	670	452
135°	562	653	741	829	846	440
145°	611	683	746	788	786	386
155°	637	684	731	746	778	295
165°	662	688	710	692	697	184
175°	654	664	631	658	604	62
180°	661	661	661	661	661	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3377.4	3377.4	3377.4	3377.4	3377.4
5°	3286.6	3189.5	3286.9	3191.1	3304.6
10°	3155.8	3114.4	3223.3	3393.7	3374.0
15°	2932.5	3085.7	3196.7	3221.1	3083.0
20°	2836.4	2945.4	3010.5	2940.6	3039.0
25°	2665.8	2775.0	2693.2	2722.6	2725.9
30°	2437.2	2550.8	2481.8	2464.2	2487.6
35°	2244.8	2308.5	2194.8	2152.4	2154.8
40°	1937.0	1991.2	1915.6	1890.0	1928.9
45°	1748.1	1716.5	1610.2	1634.3	1733.7
50°	1443.4	1421.8	1342.8	1391.5	1420.3
55°	1156.4	1155.5	1077.4	1087.8	1117.9
60°	891.2	854.6	842.0	883.4	926.2
65°	609.2	610.8	618.4	688.5	721.5
70°	425.5	441.6	445.6	451.3	441.4
75°	287.8	292.1	282.9	291.2	308.4
80°	176.6	165.1	165.7	172.8	163.5
85°	73.8	76.1	64.5	58.9	57.8
90°	13.2	3.5	1.6	0.9	1.2
95°	84.2	73.6	20.3	6.0	3.1
100°	181.6	184.9	144.8	110.8	84.6
105°	257.6	298.8	258.5	235.1	232.7
110°	347.8	393.3	359.3	346.7	327.8
115°	414.6	488.3	480.9	445.0	472.4
120°	459.3	553.6	587.6	566.9	550.0
125°	506.6	595.2	688.5	681.7	670.0
130°	545.8	631.9	733.3	764.7	742.2
135°	562.1	652.7	740.8	829.0	846.1
140°	606.1	681.2	753.7	802.2	843.0
145°	611.0	683.0	745.5	788.5	786.4
150°	630.5	674.0	775.9	774.3	775.9
155°	637.0	683.7	731.3	746.1	778.5
160°	648.0	665.7	704.2	734.1	725.2
165°	662.0	688.2	710.2	691.6	697.1
170°	627.8	674.5	690.6	686.9	696.4
175°	654.2	663.6	631.4	658.5	603.9
180°	660.6	660.6	660.6	660.6	660.6

(END OF REPORT)