

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: CTL58855

Luminaire Tested: **NB-SW-3T5-DL8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58855
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-DL8
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

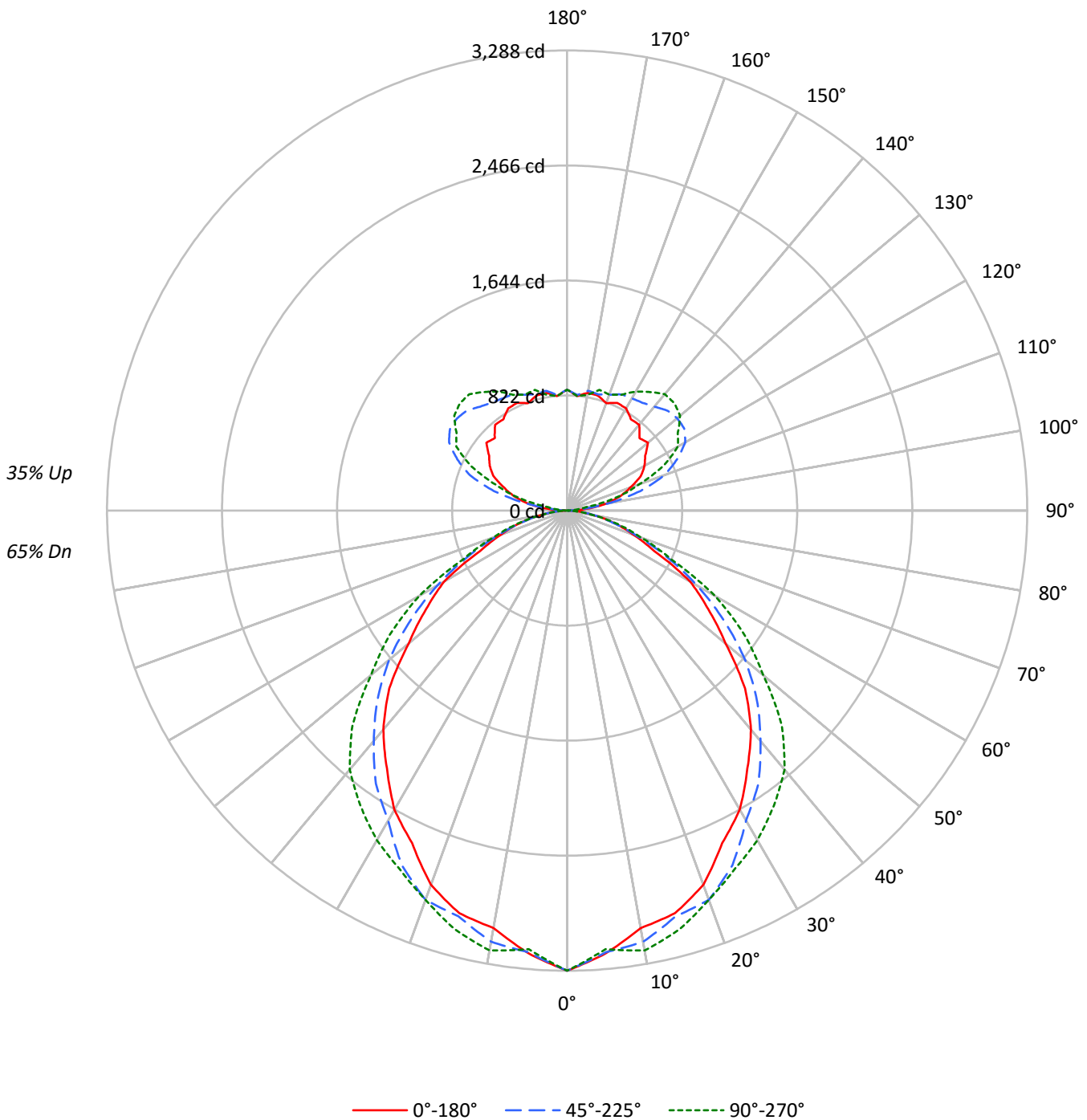
Lumens per Lamp: 5000 (3 lamps)
Luminaire Lumens: 12188.4 lumens
Efficiency: 81.3%
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	90	90	90	90	85	85	85	85	74	74	74	65	65	65	57	57	57	53				
1	83	79	76	73	77	74	72	69	66	64	62	58	56	55	51	50	49	45				
2	75	69	64	60	71	65	61	57	58	55	52	51	49	46	45	43	41	38				
3	69	61	55	50	65	58	52	48	51	47	44	46	42	40	40	38	35	33				
4	63	54	48	43	59	51	46	41	46	41	38	41	37	34	36	33	31	28				
5	58	49	42	37	54	46	40	35	41	36	33	37	33	30	32	29	27	25				
6	54	44	37	32	50	41	35	31	37	32	29	33	29	26	29	26	24	22				
7	50	40	33	28	47	38	32	27	34	29	25	30	26	23	27	24	21	19				
8	46	36	30	25	43	34	28	24	31	26	23	28	24	21	25	21	19	17				
9	43	33	27	23	40	31	26	22	28	24	20	26	22	19	23	20	17	16				
10	40	30	24	20	38	29	23	20	26	22	18	24	20	17	21	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11795	11795	11795
5°	11378	11146	11022
10°	10919	10884	11010
15°	10889	10399	10603
20°	10632	10295	10124
25°	10096	9835	9747
30°	9881	9172	9512
35°	9442	8783	9216
40°	9112	8219	8926
45°	8602	7676	8347
50°	7697	7023	7397
55°	7092	6176	6644
60°	6593	5247	5635
65°	5173	4241	4110
70°	4529	3228	3137
75°	3995	2349	2357
80°	3046	1661	1391
85°	2124	753	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	302.0	2.5	2.0
10°-20°	853.4	7.0	5.7
20°-30°	1269.8	10.4	8.5
30°-40°	1496.8	12.3	10.0
40°-50°	1494.8	12.3	10.0
50°-60°	1223.8	10.0	8.2
60°-70°	788.8	6.5	5.3
70°-80°	378.2	3.1	2.5
80°-90°	98.2	0.8	0.7
90°-100°	119.0	1.0	0.8
100°-110°	492.2	4.0	3.3
110°-120°	768.5	6.3	5.1
120°-130°	829.1	6.8	5.5
130°-140°	742.0	6.1	4.9
140°-150°	586.1	4.8	3.9
150°-160°	418.1	3.4	2.8
160°-170°	246.0	2.0	1.6
170°-180°	81.6	0.7	0.5
0°-30°	2425.2	19.9	16.2
0°-40°	3922.0	32.2	26.1
0°-60°	6640.5	54.5	44.3
0°-90°	7905.8	64.9	52.7
90°-120°	1379.8	11.3	9.2
90°-150°	3536.9	29.0	23.6
90°-180°	4283.0	35.1	28.6
0°-180°	12188.4	100.0	81.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3288	3288	3288	3288	3288	
5°	3176	3128	3167	3106	3146	299
15°	2979	2892	3001	3073	3099	836
25°	2622	2702	2795	2772	2829	1217
35°	2246	2324	2382	2444	2575	1410
45°	1797	1833	1918	2063	2170	1373
55°	1231	1232	1365	1452	1546	1108
65°	688	751	787	823	816	715
75°	353	338	339	359	373	371
85°	87	90	74	69	62	96
90°	10	9	5	4	2	33
95°	136	125	70	44	39	145
105°	390	555	542	425	372	407
115°	580	784	866	826	762	565
125°	680	864	1022	993	965	616
135°	731	834	1011	1080	1084	584
145°	796	848	940	1015	1034	507
155°	848	860	916	952	912	388
165°	850	883	859	824	893	238
175°	822	883	828	834	821	80
180°	863	863	863	863	863	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3287.5	3287.5	3287.5	3287.5	3287.5
5°	3175.6	3128.4	3167.4	3106.2	3145.7
10°	3028.6	3130.0	3128.6	3241.5	3192.1
15°	2978.6	2892.3	3000.6	3072.6	3098.6
20°	2845.1	2868.3	2959.5	2969.8	2959.6
25°	2621.5	2702.1	2794.8	2771.6	2828.6
30°	2467.4	2561.9	2556.5	2623.8	2719.1
35°	2246.0	2324.1	2381.8	2443.9	2574.6
40°	2043.1	2072.7	2149.6	2312.9	2416.3
45°	1796.7	1833.2	1918.5	2062.8	2170.2
50°	1477.3	1548.0	1660.2	1753.0	1829.4
55°	1230.6	1232.5	1365.4	1452.3	1546.4
60°	1014.0	1004.8	1070.8	1208.2	1219.6
65°	687.6	751.1	786.8	823.2	815.7
70°	502.7	512.8	534.4	555.9	561.4
75°	352.6	338.0	339.0	359.1	372.6
80°	197.5	204.4	202.6	203.3	189.2
85°	86.9	89.5	74.4	68.9	62.1
90°	10.5	8.8	5.0	4.4	2.5
95°	136.4	124.9	70.5	43.8	38.9
100°	282.2	350.5	299.8	212.3	135.2
105°	390.2	554.8	541.9	424.8	372.3
110°	480.2	699.6	738.6	633.5	546.9
115°	580.0	783.6	865.5	826.3	761.6
120°	638.0	830.0	974.1	949.3	913.6
125°	680.1	863.9	1021.7	993.2	965.1
130°	753.6	864.3	1026.1	1070.2	1053.0
135°	731.4	833.8	1010.8	1080.3	1083.7
140°	800.2	847.5	968.4	1038.8	1085.7
145°	795.5	848.0	939.6	1015.0	1033.9
150°	842.8	879.0	924.9	973.1	982.1
155°	847.7	860.4	916.4	952.3	912.0
160°	816.5	881.6	880.6	919.2	880.1
165°	850.0	883.4	858.8	823.7	892.9
170°	854.0	880.4	869.4	876.0	838.7
175°	821.5	883.4	828.5	834.4	820.9
180°	863.2	863.2	863.2	863.2	863.2

(END OF REPORT)