

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: CTL58852

Luminaire Tested: **NB-SW-3T5-DL5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58852
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-DL5
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

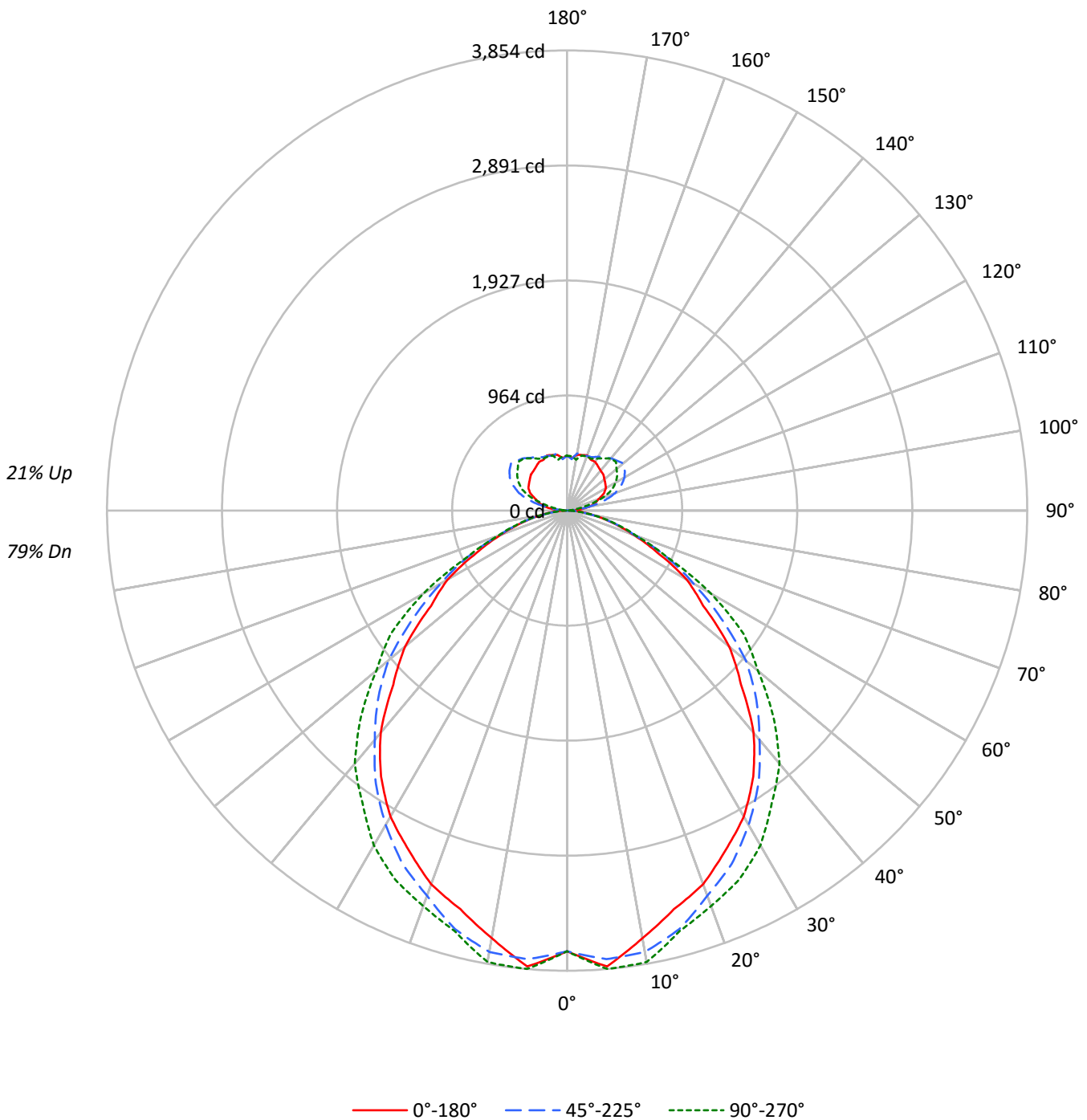
Lumens per Lamp: 5000 (3 lamps)
Luminaire Lumens: 11694.4 lumens
Efficiency: 78.0%
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.29 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

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	89	89	89	89	85	85	85	85	78	78	78	71	71	71	65	65	65	62				
1	82	78	75	73	78	75	72	70	69	67	65	63	61	60	58	57	55	53				
2	75	69	64	60	71	66	62	58	61	57	54	56	53	51	51	49	47	45				
3	68	61	55	50	65	58	53	49	54	50	46	50	46	43	46	43	41	38				
4	63	54	48	43	60	52	46	42	48	43	40	44	41	37	41	38	35	33				
5	58	49	42	37	55	47	41	36	43	38	34	40	36	33	37	34	31	29				
6	53	44	37	33	51	42	36	32	39	34	30	36	32	29	34	30	27	25				
7	50	40	33	29	47	38	32	28	36	31	27	33	29	26	31	27	24	23				
8	46	36	30	26	44	35	29	25	33	28	24	30	26	23	28	25	22	20				
9	43	33	27	23	41	32	26	23	30	25	22	28	24	21	26	23	20	18				
10	40	31	25	21	39	30	24	20	28	23	20	26	22	19	24	21	18	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13241	13241	13241
5°	13732	13271	13502
10°	13107	13056	13243
15°	12635	12577	12470
20°	12440	11939	12054
25°	12084	11485	11748
30°	11851	10904	11324
35°	11428	10301	10702
40°	10838	9582	10219
45°	9858	8972	9393
50°	9230	8261	8430
55°	8012	7109	7754
60°	7514	5978	6423
65°	6288	4948	4670
70°	5264	3651	3434
75°	4370	2794	2584
80°	3552	1775	1691
85°	2620	861	641



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	359.5	3.1	2.4
10°-20°	1014.1	8.7	6.8
20°-30°	1500.5	12.8	10.0
30°-40°	1766.8	15.1	11.8
40°-50°	1733.3	14.8	11.6
50°-60°	1419.6	12.1	9.5
60°-70°	904.9	7.7	6.0
70°-80°	432.5	3.7	2.9
80°-90°	111.4	1.0	0.7
90°-100°	81.1	0.7	0.5
100°-110°	293.7	2.5	2.0
110°-120°	442.4	3.8	2.9
120°-130°	472.8	4.0	3.2
130°-140°	425.5	3.6	2.8
140°-150°	329.8	2.8	2.2
150°-160°	228.3	2.0	1.5
160°-170°	135.2	1.2	0.9
170°-180°	42.8	0.4	0.3
0°-30°	2874.1	24.6	19.2
0°-40°	4640.9	39.7	30.9
0°-60°	7793.8	66.6	52.0
0°-90°	9242.6	79.0	61.6
90°-120°	817.2	7.0	5.4
90°-150°	2045.4	17.5	13.6
90°-180°	2452.0	21.0	16.3
0°-180°	11694.4	100.0	78.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3690	3690	3690	3690	3690	
5°	3833	3792	3771	3803	3854	357
15°	3456	3573	3629	3632	3644	980
25°	3138	3204	3264	3283	3409	1450
35°	2718	2767	2793	2894	2990	1695
45°	2059	2134	2242	2354	2442	1605
55°	1390	1474	1572	1699	1805	1276
65°	836	850	918	947	927	844
75°	386	404	403	401	409	418
85°	107	99	85	78	72	115
90°	16	8	4	2	2	34
95°	105	90	50	34	28	102
105°	242	331	320	254	191	251
115°	338	458	499	474	414	329
125°	390	509	588	570	512	350
135°	429	506	591	608	578	329
145°	451	482	538	570	533	284
155°	469	483	492	497	478	220
165°	482	479	473	472	479	137
175°	440	429	432	413	456	43
180°	460	460	460	460	460	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3690.5	3690.5	3690.5	3690.5	3690.5
5°	3832.6	3791.6	3771.0	3803.0	3853.5
10°	3635.6	3640.2	3753.0	3847.9	3839.4
15°	3456.2	3573.1	3629.2	3631.8	3644.4
20°	3329.0	3381.4	3432.1	3458.9	3523.8
25°	3137.7	3204.2	3263.8	3282.6	3409.3
30°	2959.3	3023.8	3039.4	3093.9	3237.3
35°	2718.4	2766.6	2793.4	2894.4	2989.6
40°	2430.2	2470.5	2506.0	2677.6	2766.3
45°	2059.2	2133.7	2242.4	2353.5	2442.2
50°	1771.6	1797.2	1952.9	2028.9	2085.0
55°	1390.4	1473.9	1571.7	1698.6	1804.8
60°	1155.7	1172.2	1220.0	1343.9	1390.2
65°	835.7	850.5	918.0	946.7	926.7
70°	584.3	605.0	604.4	628.3	614.6
75°	385.7	403.6	403.2	400.9	408.6
80°	230.3	237.4	216.6	227.5	230.0
85°	107.2	98.8	85.0	78.1	72.4
90°	16.4	7.7	3.7	2.2	1.8
95°	104.7	89.6	50.2	33.7	28.1
100°	188.2	227.6	184.1	138.1	91.2
105°	242.1	331.4	319.8	254.2	191.0
110°	279.0	418.5	428.5	373.0	318.6
115°	337.9	458.1	499.1	474.3	413.6
120°	374.6	486.5	554.4	545.3	467.9
125°	390.4	509.3	588.5	570.5	512.1
130°	407.3	504.5	613.3	600.5	539.6
135°	429.0	506.5	591.3	607.9	578.0
140°	435.9	512.6	571.1	594.7	567.6
145°	450.8	481.5	537.9	570.1	532.8
150°	470.7	490.8	520.5	551.8	502.7
155°	469.3	482.7	492.0	497.4	478.4
160°	491.9	485.0	486.3	483.2	479.7
165°	481.8	478.6	473.4	471.9	478.6
170°	473.8	469.9	486.0	465.3	432.8
175°	440.3	429.4	432.4	413.0	455.9
180°	459.7	459.7	459.7	459.7	459.7

(END OF REPORT)