

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: CTL58856

Luminaire Tested: **NB-SW-3T5-UDU-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58856
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-UDU-1
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

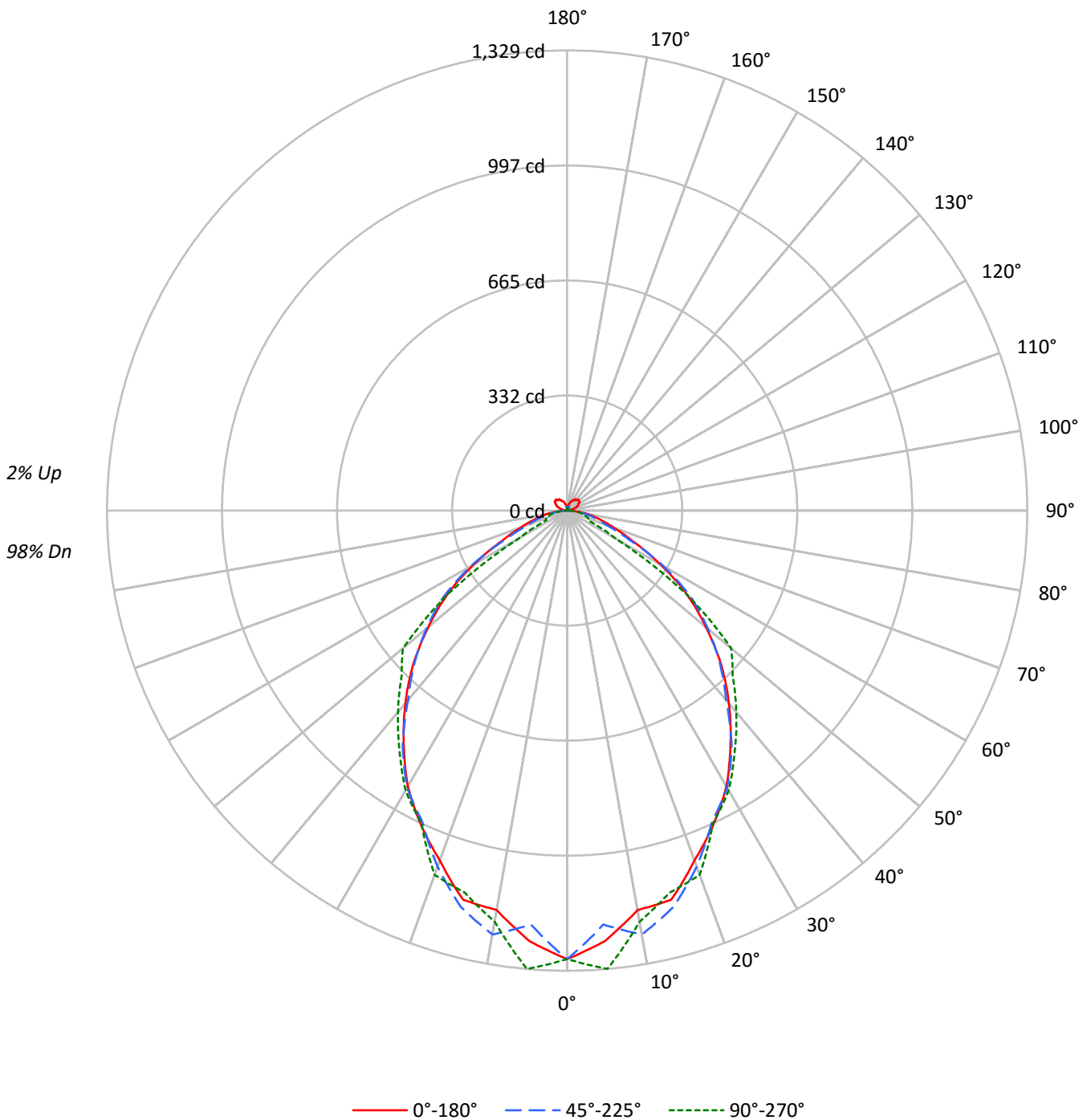
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 2640.5 lumens
Efficiency: 52.8%
Efficacy: 44.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.18
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Direct

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	63	63	63	63	61	61	61	61	58	58	58	55	55	55	53	53	53	52
1	58	56	54	52	57	55	53	51	52	51	49	50	49	48	48	47	46	45
2	53	50	47	44	52	49	46	43	47	44	42	45	43	41	43	41	40	39
3	49	44	41	38	48	43	40	37	42	39	36	40	38	36	39	37	35	34
4	45	40	36	32	44	39	35	32	38	34	32	36	33	31	35	33	31	29
5	42	36	32	28	41	35	31	28	34	31	28	33	30	27	32	29	27	26
6	39	33	28	25	38	32	28	25	31	27	25	30	27	24	29	26	24	23
7	36	30	25	22	35	29	25	22	28	25	22	28	24	22	27	24	22	21
8	34	27	23	20	33	27	23	20	26	23	20	25	22	20	25	22	20	19
9	32	25	21	18	31	25	21	18	24	21	18	24	20	18	23	20	18	17
10	30	23	19	17	29	23	19	17	22	19	17	22	19	16	21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4648	4648	4648
5°	4472	4224	4656
10°	4223	4325	4158
15°	4253	4108	3909
20°	4018	3806	3829
25°	3854	3485	3435
30°	3685	3317	3264
35°	3459	3054	3023
40°	3243	2731	2807
45°	3011	2495	2599
50°	2723	2242	2502
55°	2437	1977	1803
60°	2017	1571	760
65°	1563	1049	336
70°	1272	706	366
75°	1084	570	337
80°	953	411	293
85°	604	179	115



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	117.5	4.4	2.3
10°-20°	326.5	12.4	6.5
20°-30°	465.2	17.6	9.3
30°-40°	519.1	19.7	10.4
40°-50°	493.5	18.7	9.9
50°-60°	375.9	14.2	7.5
60°-70°	176.3	6.7	3.5
70°-80°	85.5	3.2	1.7
80°-90°	24.1	0.9	0.5
90°-100°	1.9	0.1	0.0
100°-110°	5.3	0.2	0.1
110°-120°	8.9	0.3	0.2
120°-130°	10.8	0.4	0.2
130°-140°	10.9	0.4	0.2
140°-150°	9.1	0.3	0.2
150°-160°	6.2	0.2	0.1
160°-170°	3.1	0.1	0.1
170°-180°	0.8	0.0	0.0
0°-30°	909.1	34.4	18.2
0°-40°	1428.2	54.1	28.6
0°-60°	2297.6	87.0	46.0
0°-90°	2583.5	97.8	51.7
90°-120°	16.2	0.6	0.3
90°-150°	46.9	1.8	0.9
90°-180°	57.0	2.2	1.1
0°-180°	2640.5	100.0	52.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1248	1215	1200	1216	1329	117
15°	1163	1136	1185	1163	1142	323
25°	1001	1029	990	1008	997	461
35°	823	835	828	818	844	515
45°	629	617	624	651	676	484
55°	423	413	437	445	420	375
65°	208	215	195	103	67	214
75°	96	100	82	65	53	104
85°	25	25	18	14	13	29
90°	3	1	0	0	0	5
95°	7	2	0	0	0	7
105°	18	5	3	2	1	20
115°	35	10	6	3	2	33
125°	44	16	6	4	3	38
135°	46	23	7	3	2	34
145°	40	25	9	4	3	24
155°	30	19	12	7	3	14
165°	19	16	11	6	4	6
175°	8	8	8	7	7	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.4	1295.4	1295.4	1295.4	1295.4
5°	1248.1	1215.3	1200.2	1215.7	1328.9
10°	1171.4	1187.6	1243.3	1219.1	1205.6
15°	1163.4	1135.8	1185.4	1162.7	1142.4
20°	1075.2	1094.9	1094.1	1102.0	1119.5
25°	1000.6	1028.6	990.4	1007.9	996.8
30°	920.1	937.6	924.5	915.8	933.2
35°	822.8	835.0	828.1	817.9	844.4
40°	727.2	740.1	714.2	737.5	760.0
45°	628.9	617.1	623.6	650.6	675.8
50°	522.6	520.8	530.0	582.5	618.8
55°	422.9	412.9	437.1	444.7	419.6
60°	310.3	311.5	320.6	232.8	164.4
65°	207.7	215.2	194.6	102.9	66.7
70°	141.2	149.0	116.9	83.0	65.5
75°	95.7	100.0	82.2	65.2	53.3
80°	61.8	58.5	50.1	40.6	39.8
85°	24.7	25.3	17.7	13.6	13.0
90°	2.8	1.4	0.3	0.2	0.3
95°	6.8	2.0	0.3	0.2	0.3
100°	11.6	3.9	2.0	1.0	0.4
105°	18.4	5.4	3.2	1.7	0.7
110°	27.6	6.4	4.5	2.4	0.8
115°	34.9	10.1	6.2	2.8	2.2
120°	37.1	12.3	6.2	3.4	1.9
125°	44.0	16.0	6.4	3.8	2.6
130°	44.0	18.0	7.2	3.8	2.8
135°	45.5	23.4	6.8	3.4	1.8
140°	38.7	23.9	8.2	4.9	2.7
145°	40.1	25.0	9.2	3.9	3.0
150°	32.9	21.0	11.1	4.8	3.1
155°	30.2	19.2	11.8	6.6	3.0
160°	25.5	18.6	11.2	5.5	5.2
165°	19.1	15.7	10.6	6.2	4.1
170°	12.3	11.0	10.5	6.3	4.2
175°	7.7	7.6	7.5	6.7	6.6
180°	7.9	7.9	7.9	7.9	7.9

(END OF REPORT)