

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: CTL58883

Luminaire Tested: **NB-SW-3T8-UDU-2 OUTBOARD ONLY**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58883
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-UDU-2 OUTBOARD ONLY
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & LAMP ISOLATORS

Light Source: 32 WATT T8 LAMPS
F32T8/TL841. LUMEN RATING = 3000 LMS.
Ballast/Driver: -

Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3574.4 lumens
Efficiency: 61.6%
Efficacy: 45.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.77 / 0.83
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Indirect

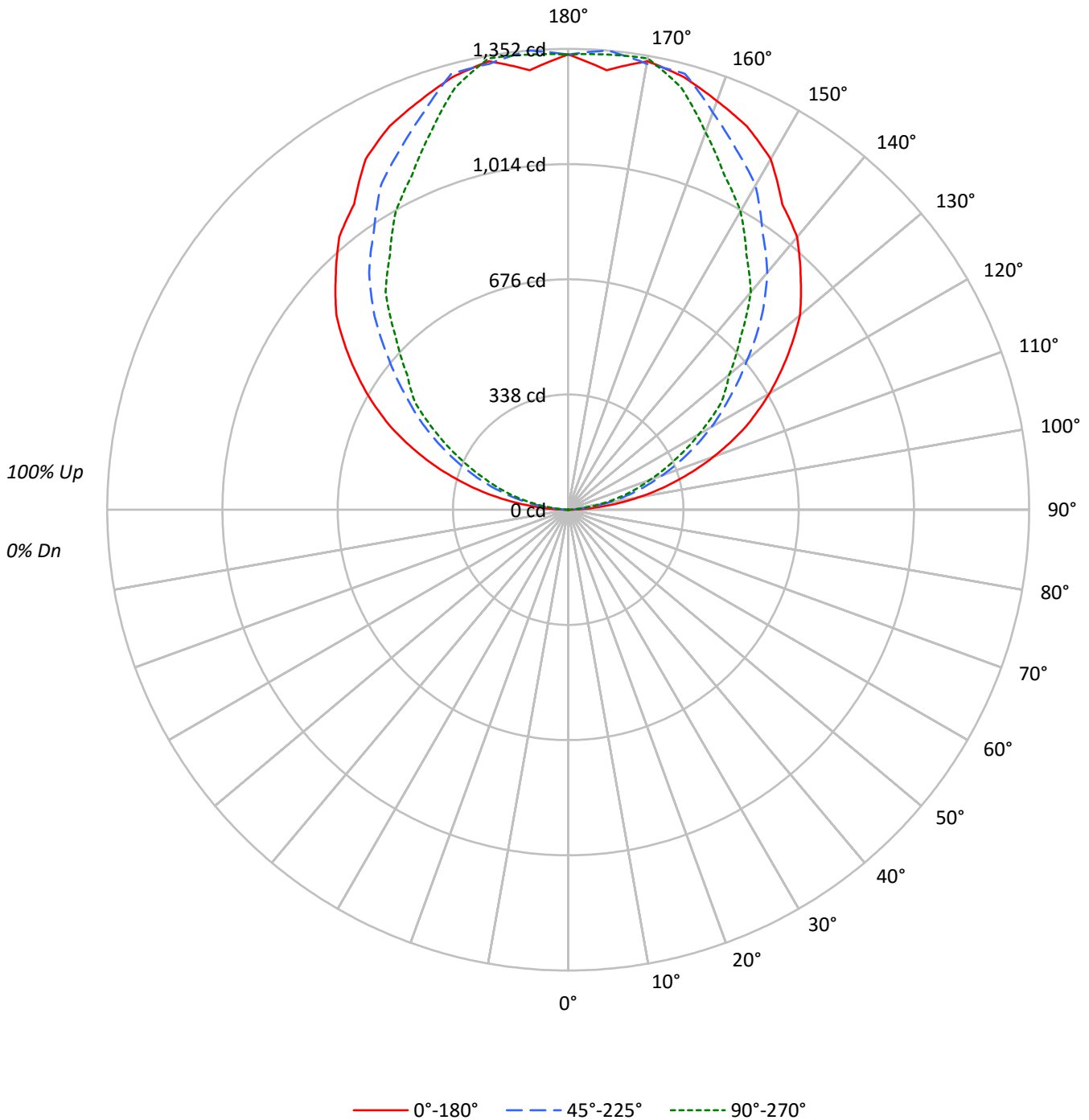
Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	59	59	59	59	50	50	50	50	34	34	34	20	20	20	6	6	6	0
1	53	51	49	47	46	44	42	40	30	29	28	17	17	16	6	5	5	0
2	49	44	41	38	41	38	35	33	26	24	23	15	14	13	5	5	4	0
3	44	39	35	32	38	33	30	27	23	21	19	13	12	11	4	4	4	0
4	40	34	30	26	34	29	26	23	20	18	16	12	11	10	4	3	3	0
5	37	30	26	22	31	26	22	19	18	16	14	10	9	8	3	3	3	0
6	34	27	22	19	29	23	19	17	16	14	12	9	8	7	3	3	2	0
7	31	24	20	17	26	21	17	14	14	12	10	8	7	6	3	2	2	0
8	29	22	17	14	24	19	15	13	13	11	9	8	6	5	2	2	2	0
9	27	20	15	13	23	17	13	11	12	9	8	7	6	5	2	2	2	0
10	25	18	14	11	21	15	12	10	11	8	7	6	5	4	2	2	1	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3	3	3
5°	0	0	6
10°	3	0	1
15°	1	1	3
20°	1	1	2
25°	1	2	0
30°	1	1	1
35°	1	0	3
40°	4	2	2
45°	2	1	1
50°	3	2	2
55°	3	1	1
60°	4	2	1
65°	1	1	1
70°	1	1	1
75°	0	0	1
80°	2	0	0
85°	2	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.1	0.0	0.0
20°-30°	0.2	0.0	0.0
30°-40°	0.2	0.0	0.0
40°-50°	0.3	0.0	0.0
50°-60°	0.4	0.0	0.0
60°-70°	0.2	0.0	0.0
70°-80°	0.1	0.0	0.0
80°-90°	0.5	0.0	0.0
90°-100°	60.7	1.7	1.0
100°-110°	238.4	6.7	4.1
110°-120°	417.1	11.7	7.2
120°-130°	554.9	15.5	9.6
130°-140°	634.7	17.8	10.9
140°-150°	631.2	17.7	10.9
150°-160°	540.2	15.1	9.3
160°-170°	366.7	10.3	6.3
170°-180°	128.5	3.6	2.2
0°-30°	0.3	0.0	0.0
0°-40°	0.6	0.0	0.0
0°-60°	1.2	0.0	0.0
0°-90°	1.9	0.1	0.0
90°-120°	716.3	20.0	12.4
90°-150°	2537.1	71.0	43.7
90°-180°	3572.0	99.9	61.6
0°-180°	3574.4	100.0	61.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1	1	1	1	1	
5°	0	0	0	1	2	0
15°	0	0	0	1	1	0
25°	0	0	1	0	0	0
35°	0	0	0	0	1	0
45°	0	0	0	0	0	0
55°	1	0	0	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
90°	7	3	0	0	0	14
95°	90	59	36	26	24	106
105°	332	252	202	193	178	350
115°	573	484	386	360	344	565
125°	785	693	581	544	548	702
135°	964	913	803	738	715	746
145°	1094	1106	994	911	912	693
155°	1241	1250	1166	1106	1083	571
165°	1314	1314	1324	1285	1282	371
175°	1294	1365	1352	1377	1340	126
180°	1336	1336	1336	1336	1336	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.9	0.9	0.9	0.9	0.9
5°	0.0	0.0	0.0	0.9	1.6
10°	0.8	0.2	0.0	0.5	0.4
15°	0.3	0.3	0.4	0.6	0.8
20°	0.3	0.1	0.2	0.8	0.7
25°	0.3	0.4	0.6	0.4	0.0
30°	0.3	0.4	0.4	0.2	0.3
35°	0.2	0.5	0.1	0.4	0.7
40°	0.8	0.3	0.4	0.3	0.5
45°	0.4	0.4	0.2	0.3	0.2
50°	0.5	0.4	0.4	0.3	0.6
55°	0.6	0.5	0.3	0.4	0.2
60°	0.6	0.4	0.4	0.2	0.2
65°	0.1	0.2	0.1	0.0	0.2
70°	0.1	0.2	0.1	0.1	0.1
75°	0.0	0.0	0.0	0.1	0.1
80°	0.1	0.0	0.0	0.0	0.0
85°	0.1	0.0	0.0	0.0	0.0
90°	6.8	2.9	0.2	0.1	0.4
95°	90.2	59.4	35.5	26.4	24.5
100°	210.8	148.0	118.0	108.0	98.3
105°	331.6	252.3	202.3	193.2	177.5
110°	453.6	368.3	292.5	266.5	255.2
115°	573.2	484.4	386.1	360.2	344.4
120°	681.0	584.1	484.6	448.5	443.1
125°	784.7	693.3	580.9	544.2	548.0
130°	887.3	804.8	686.6	628.5	616.8
135°	964.3	913.0	802.8	737.7	714.9
140°	1044.4	1007.0	908.3	836.2	833.3
145°	1094.3	1105.6	993.9	911.3	911.7
150°	1187.9	1176.2	1098.9	1027.1	1010.9
155°	1240.7	1249.9	1166.1	1105.5	1083.4
160°	1275.9	1292.0	1240.0	1196.5	1178.2
165°	1313.5	1314.0	1324.1	1285.0	1282.0
170°	1336.0	1353.9	1328.6	1344.4	1344.5
175°	1294.1	1364.9	1352.1	1377.0	1340.4
180°	1335.6	1335.6	1335.6	1335.6	1335.6

(END OF REPORT)