

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: CTL58889

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58889
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-UXU-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: 3579.2 lumens
Efficiency: 61.7%
Efficacy: 45.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Indirect

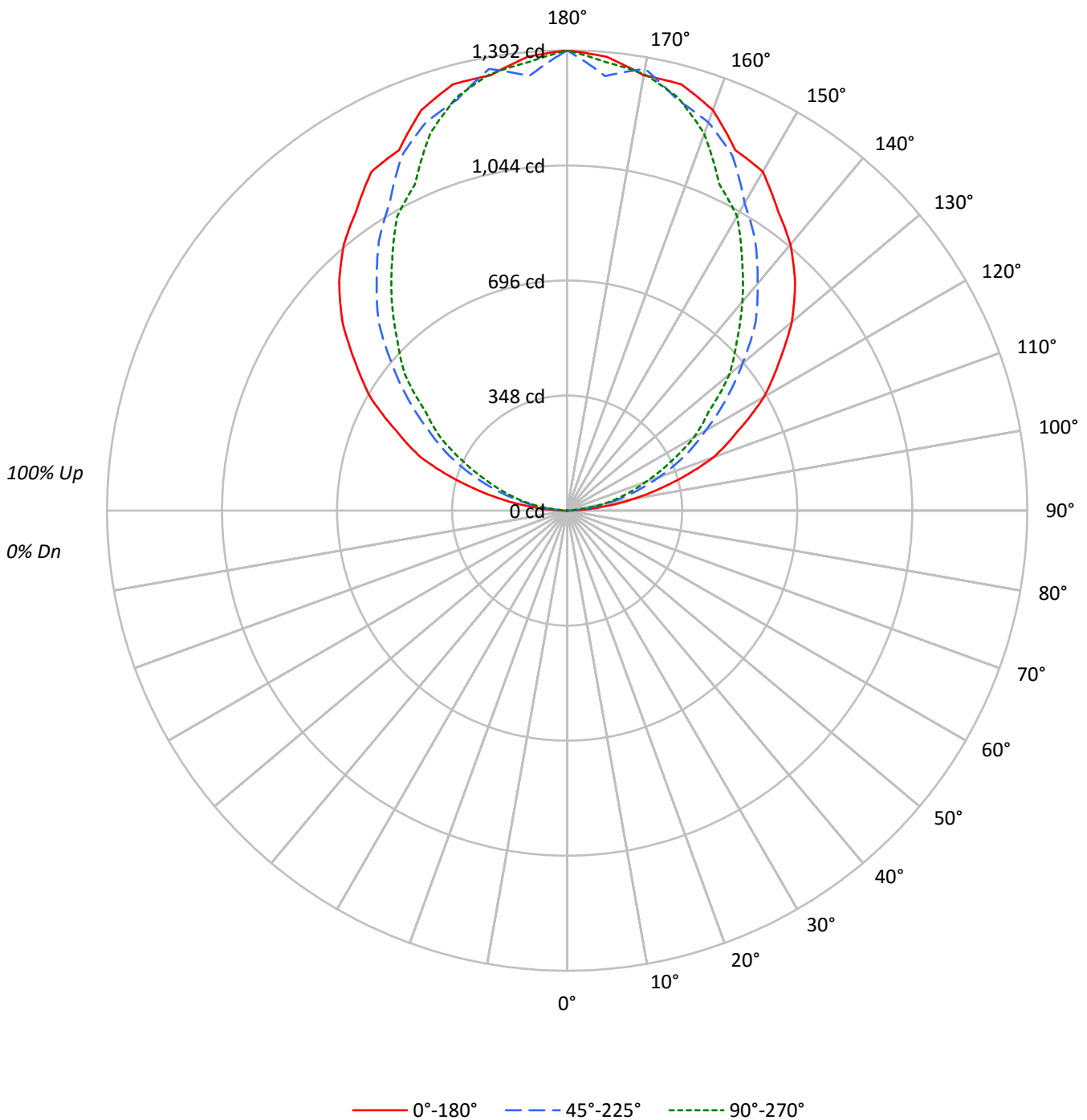
Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	27	34	29	26	23	20	18	16	12	11	10	4	3	3	0
5	37	30	26	22	31	26	22	20	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°	0	0	0
5°	3	0	0
10°	0	1	4
15°	0	0	2
20°	1	1	0
25°	0	1	1
30°	0	0	1
35°	0	1	1
40°	0	1	1
45°	0	2	0
50°	3	1	0
55°	3	3	1
60°	0	1	1
65°	1	1	0
70°	0	0	0
75°	1	1	0
80°	2	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.1	0.0	0.0
30°-40°	0.1	0.0	0.0
40°-50°	0.2	0.0	0.0
50°-60°	0.3	0.0	0.0
60°-70°	0.1	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.5	0.0	0.0
90°-100°	61.3	1.7	1.1
100°-110°	237.9	6.6	4.1
110°-120°	417.2	11.7	7.2
120°-130°	558.1	15.6	9.6
130°-140°	636.9	17.8	11.0
140°-150°	630.5	17.6	10.9
150°-160°	539.9	15.1	9.3
160°-170°	366.5	10.2	6.3
170°-180°	129.6	3.6	2.2
0°-30°	0.1	0.0	0.0
0°-40°	0.2	0.0	0.0
0°-60°	0.7	0.0	0.0
0°-90°	1.3	0.0	0.0
90°-120°	716.4	20.0	12.4
90°-150°	2541.9	71.0	43.8
90°-180°	3578.0	100.0	61.7
0°-180°	3579.2	100.0	61.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	1	0	0	0	0	0
15°	0	0	0	0	1	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	1	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	7	2	1	0	0	13
95°	84	61	40	28	22	102
105°	333	248	204	186	177	354
115°	570	476	394	357	341	569
125°	782	706	587	551	524	703
135°	975	913	806	740	726	751
145°	1110	1093	993	925	923	698
155°	1203	1234	1184	1124	1089	563
165°	1334	1323	1287	1281	1294	375
175°	1377	1366	1320	1385	1361	130
180°	1392	1392	1392	1392	1392	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
5°	0.7	0.0	0.0	0.4	0.0
10°	0.0	0.0	0.2	0.4	1.2
15°	0.0	0.0	0.1	0.0	0.6
20°	0.2	0.2	0.2	0.0	0.0
25°	0.0	0.0	0.2	0.2	0.2
30°	0.0	0.1	0.0	0.2	0.2
35°	0.1	0.3	0.2	0.1	0.2
40°	0.1	0.3	0.2	0.2	0.4
45°	0.1	0.3	0.5	0.2	0.1
50°	0.6	0.4	0.3	0.3	0.1
55°	0.5	0.3	0.6	0.2	0.3
60°	0.0	0.2	0.2	0.2	0.2
65°	0.1	0.1	0.1	0.0	0.0
70°	0.0	0.1	0.0	0.0	0.0
75°	0.1	0.1	0.1	0.0	0.0
80°	0.1	0.0	0.0	0.0	0.0
85°	0.0	0.1	0.0	0.0	0.0
90°	6.9	2.1	0.7	0.4	0.3
95°	84.3	60.6	39.7	27.5	22.0
100°	204.5	147.9	117.5	110.7	107.6
105°	333.1	247.7	204.3	186.1	177.0
110°	471.5	364.4	295.7	266.8	252.4
115°	569.7	476.0	393.9	356.8	341.3
120°	687.8	595.1	483.3	444.3	442.6
125°	782.1	706.0	586.6	551.1	523.7
130°	887.1	803.4	692.8	637.1	640.6
135°	975.3	913.2	806.5	740.4	725.9
140°	1050.9	993.8	896.2	844.8	824.7
145°	1109.9	1092.8	993.2	925.1	922.7
150°	1183.9	1178.7	1073.9	1016.0	1027.9
155°	1203.2	1234.5	1183.6	1123.9	1089.2
160°	1289.1	1271.0	1249.6	1196.5	1212.8
165°	1334.5	1322.9	1286.8	1281.0	1293.8
170°	1336.8	1319.9	1356.9	1359.4	1341.0
175°	1377.4	1365.6	1319.6	1385.4	1361.1
180°	1392.1	1392.1	1392.1	1392.1	1392.1

(END OF REPORT)