

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: CTL58890

Luminaire Tested: **NB-SW-3T8-UXU-3 ALL LAMPS ON**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58890
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-UXU-3 ALL LAMPS ON
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 (3 lamps)
Luminaire Lumens: 6144.7 lumens
Efficiency: 70.6%
Efficacy: 52.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.59 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Indirect

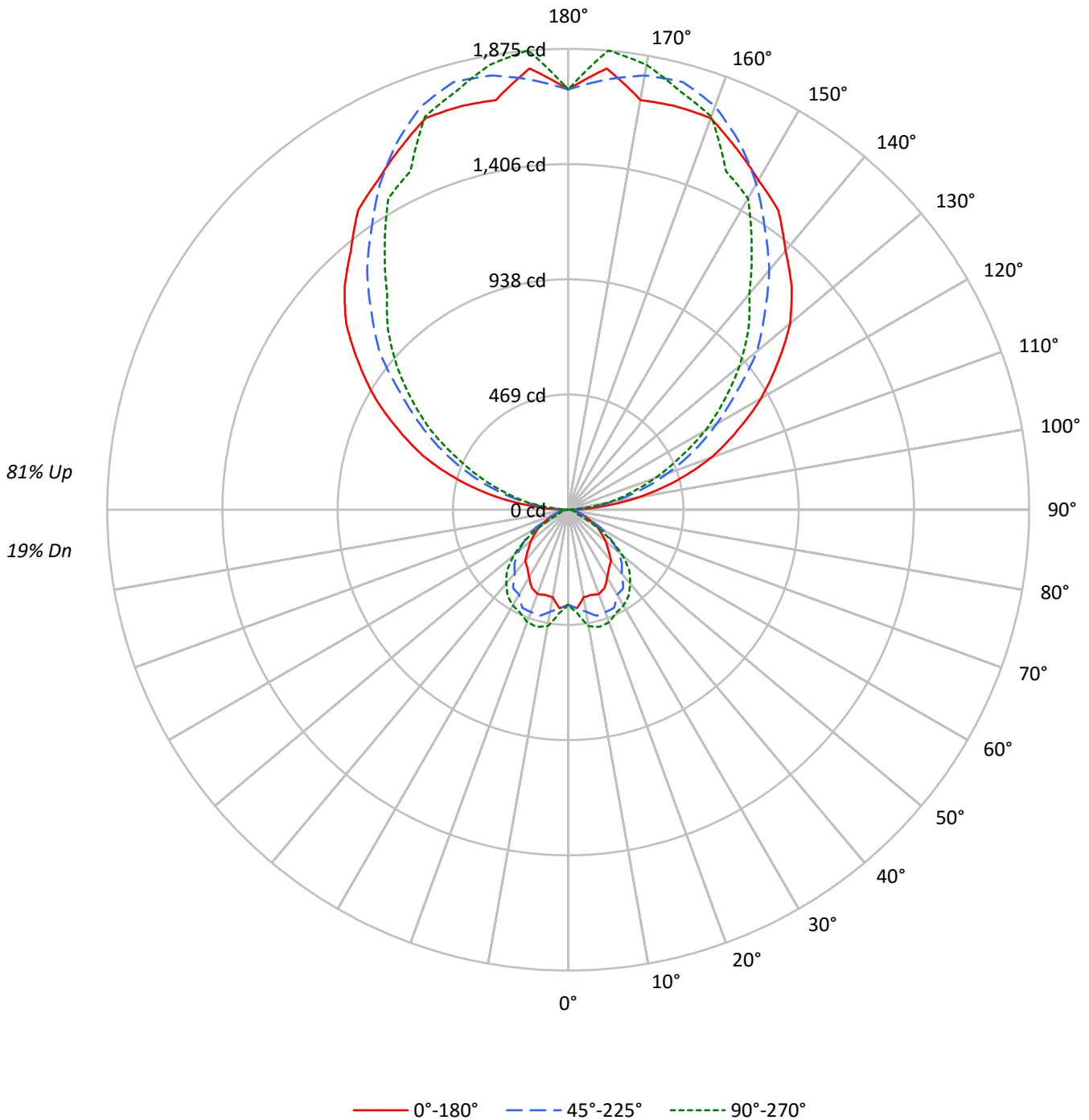
Input Watts (W): 117
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	70	70	70	70	62	62	62	62	47	47	47	32	32	32	19	19	19	13
1	64	61	59	57	57	54	52	50	41	40	38	29	28	27	17	17	16	11
2	59	54	50	46	51	48	44	41	36	34	32	25	24	23	15	15	14	10
3	53	47	42	39	47	42	38	35	32	29	27	22	21	19	14	13	12	8
4	49	42	37	33	43	37	33	29	28	25	23	20	18	17	12	11	10	7
5	45	37	32	28	39	33	28	25	25	22	20	18	16	14	11	10	9	6
6	41	33	28	24	36	29	25	22	22	19	17	16	14	12	10	9	8	6
7	38	30	24	21	33	26	22	19	20	17	15	14	12	11	9	8	7	5
8	35	27	22	18	31	24	20	16	18	15	13	13	11	10	8	7	6	4
9	32	24	19	16	29	22	17	15	17	14	12	12	10	9	8	6	6	4
10	30	22	17	14	27	20	16	13	15	12	10	11	9	8	7	6	5	4

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1388	1388	1388
5°	1442	1418	1481
10°	1304	1465	1659
15°	1313	1548	1688
20°	1364	1541	1665
25°	1349	1552	1593
30°	1270	1432	1573
35°	1213	1438	1533
40°	1209	1292	1448
45°	1104	1236	1354
50°	1031	1114	1164
55°	934	961	878
60°	874	787	501
65°	694	519	220
70°	594	351	209
75°	499	279	169
80°	480	192	167
85°	308	98	66



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	39.8	0.6	0.5
10°-20°	122.4	2.0	1.4
20°-30°	194.7	3.2	2.2
30°-40°	232.8	3.8	2.7
40°-50°	232.8	3.8	2.7
50°-60°	176.8	2.9	2.0
60°-70°	89.7	1.5	1.0
70°-80°	41.7	0.7	0.5
80°-90°	12.7	0.2	0.1
90°-100°	89.8	1.5	1.0
100°-110°	340.3	5.5	3.9
110°-120°	592.7	9.6	6.8
120°-130°	790.5	12.9	9.1
130°-140°	892.7	14.5	10.3
140°-150°	881.8	14.3	10.1
150°-160°	747.3	12.2	8.6
160°-170°	495.9	8.1	5.7
170°-180°	170.4	2.8	2.0
0°-30°	356.9	5.8	4.1
0°-40°	589.7	9.6	6.8
0°-60°	999.3	16.3	11.5
0°-90°	1143.5	18.6	13.1
90°-120°	1022.8	16.6	11.8
90°-150°	3587.7	58.4	41.2
90°-180°	5001.0	81.4	57.5
0°-180°	6144.7	100.0	70.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	387	387	387	387	387	
5°	402	434	403	426	423	37
15°	359	385	447	471	493	102
25°	350	390	441	460	462	159
35°	289	339	390	407	428	183
45°	230	278	309	341	352	179
55°	162	185	212	205	204	147
65°	92	99	96	70	44	95
75°	44	47	40	34	27	49
85°	13	11	10	8	7	15
90°	10	4	0	0	0	21
95°	122	90	56	41	36	145
105°	456	350	299	269	258	480
115°	757	688	562	511	499	752
125°	1040	994	835	796	774	932
135°	1285	1271	1130	1074	1037	990
145°	1489	1504	1395	1358	1301	925
155°	1620	1686	1649	1593	1519	749
165°	1699	1741	1802	1766	1762	481
175°	1802	1784	1757	1813	1875	167
180°	1710	1710	1710	1710	1710	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	386.8	386.8	386.8	386.8	386.8
5°	402.4	434.0	402.8	425.9	422.6
10°	361.7	411.1	421.2	441.3	481.0
15°	359.2	385.1	446.6	471.4	493.2
20°	365.0	399.3	443.0	479.3	486.7
25°	350.3	389.7	441.0	460.4	462.3
30°	317.2	377.8	399.1	441.6	449.8
35°	288.6	339.4	390.0	407.4	428.2
40°	271.1	305.9	337.8	377.0	391.9
45°	230.5	278.2	308.8	341.0	352.1
50°	197.9	233.6	263.4	293.2	287.8
55°	162.0	185.0	212.4	205.3	204.4
60°	134.4	147.9	160.6	133.3	108.4
65°	92.2	99.3	96.2	69.8	43.7
70°	65.9	71.7	58.1	41.2	37.4
75°	44.0	46.6	40.3	33.5	26.7
80°	31.1	28.1	23.4	19.9	22.7
85°	12.6	11.2	9.7	8.4	7.4
90°	9.6	4.4	0.5	0.4	0.2
95°	122.4	89.8	55.5	40.8	36.4
100°	289.8	211.6	178.3	161.6	163.2
105°	456.4	350.4	299.4	269.2	258.4
110°	617.7	519.1	427.5	384.7	375.7
115°	757.3	688.1	561.6	510.8	498.6
120°	904.9	844.3	696.2	658.1	643.4
125°	1039.8	993.5	834.9	796.1	774.0
130°	1178.5	1121.0	1002.1	929.0	909.0
135°	1285.2	1270.8	1130.2	1074.4	1036.6
140°	1374.7	1388.6	1271.6	1198.8	1145.5
145°	1488.7	1503.8	1394.6	1357.9	1300.7
150°	1547.8	1613.8	1530.6	1448.7	1462.6
155°	1620.5	1685.5	1648.6	1592.9	1518.8
160°	1695.1	1697.0	1746.6	1664.6	1702.4
165°	1698.8	1741.1	1801.5	1765.7	1761.9
170°	1692.6	1751.7	1793.8	1855.4	1838.0
175°	1802.1	1784.2	1756.6	1813.4	1875.4
180°	1709.8	1709.8	1709.8	1709.8	1709.8

(END OF REPORT)