

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: CTL58891

Luminaire Tested: **NB-SW-3T8-EXD-1 INBOARD ONLY**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58891
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-EXD-1 INBOARD 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

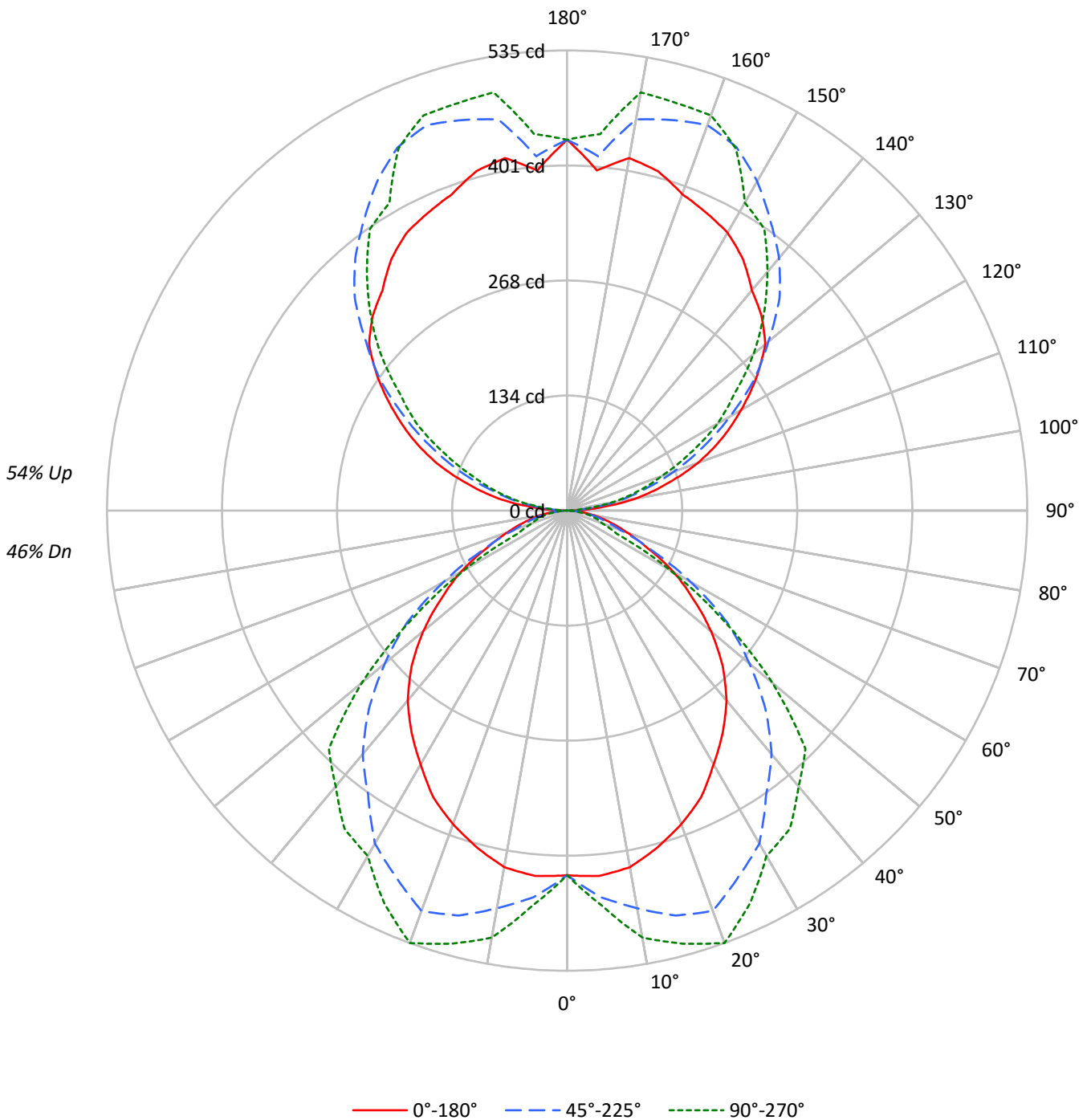
Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 2674.4 lumens
Efficiency: 92.2%
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.56 / 1.47
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: General Diffuse

Input Watts (W): 39
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	98	98	98	98	90	90	90	90	75	75	75	61	61	61	49	49	49	43
1	90	86	83	80	82	79	76	74	66	64	62	55	53	52	44	43	42	37
2	82	76	70	66	75	70	65	61	59	55	52	48	46	44	39	37	36	32
3	75	67	60	55	69	62	56	51	52	48	44	43	40	38	35	33	31	27
4	69	59	52	47	63	55	49	44	46	42	38	38	35	32	31	29	27	23
5	63	53	45	40	58	49	42	38	41	37	33	35	31	28	28	26	23	20
6	58	47	40	35	53	44	37	33	37	32	29	31	28	25	26	23	21	18
7	54	43	36	31	49	40	33	29	34	29	25	28	25	22	23	21	18	16
8	50	39	32	27	46	36	30	25	31	26	22	26	22	19	21	19	17	14
9	46	35	29	24	43	33	27	23	28	23	20	24	20	17	20	17	15	13
10	43	32	26	21	40	30	24	20	26	21	18	22	18	16	18	16	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1521	1521	1521
5°	1528	1588	1615
10°	1517	1633	1739
15°	1482	1689	1784
20°	1450	1723	1830
25°	1418	1655	1734
30°	1364	1603	1622
35°	1325	1487	1616
40°	1285	1414	1546
45°	1224	1304	1507
50°	1138	1170	1260
55°	1029	1028	946
60°	928	811	632
65°	773	578	319
70°	660	394	244
75°	569	308	216
80°	491	227	162
85°	352	105	73



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	43.1	1.6	1.5
10°-20°	134.4	5.0	4.6
20°-30°	210.0	7.9	7.2
30°-40°	250.0	9.3	8.6
40°-50°	250.3	9.4	8.6
50°-60°	192.3	7.2	6.6
60°-70°	100.9	3.8	3.5
70°-80°	47.3	1.8	1.6
80°-90°	13.6	0.5	0.5
90°-100°	28.3	1.1	1.0
100°-110°	102.8	3.8	3.5
110°-120°	177.6	6.6	6.1
120°-130°	235.5	8.8	8.1
130°-140°	262.0	9.8	9.0
140°-150°	250.9	9.4	8.7
150°-160°	204.7	7.7	7.1
160°-170°	129.4	4.8	4.5
170°-180°	41.0	1.5	1.4
0°-30°	387.6	14.5	13.4
0°-40°	637.6	23.8	22.0
0°-60°	1080.2	40.4	37.2
0°-90°	1242.0	46.4	42.8
90°-120°	308.7	11.5	10.6
90°-150°	1057.1	39.5	36.5
90°-180°	1432.0	53.5	49.4
0°-180°	2674.4	100.0	92.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	424	424	424	424	424	
5°	426	439	451	464	461	40
15°	405	445	487	512	521	114
25°	368	422	470	497	503	169
35°	315	376	403	437	451	197
45°	256	300	326	358	392	196
55°	179	212	227	222	220	161
65°	103	113	107	80	63	104
75°	50	52	44	40	34	54
85°	14	13	10	9	8	16
90°	4	2	0	0	0	8
95°	35	28	20	15	14	41
105°	120	110	90	85	84	127
115°	199	201	174	163	158	196
125°	268	289	265	245	238	240
135°	320	366	349	323	324	246
145°	357	416	412	401	400	223
155°	382	438	466	455	464	177
165°	408	432	470	484	490	115
175°	397	402	414	421	439	39
180°	431	431	431	431	431	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	423.9	423.9	423.9	423.9	423.9
5°	426.4	438.6	451.2	463.8	460.9
10°	420.9	442.3	469.4	483.1	504.2
15°	405.4	445.3	487.4	512.2	521.3
20°	387.9	432.2	495.2	517.2	534.9
25°	368.1	422.2	470.4	497.0	503.3
30°	340.6	401.8	446.9	470.4	463.6
35°	315.3	375.8	403.3	437.2	451.4
40°	288.2	338.4	369.8	402.3	418.6
45°	255.6	300.1	325.8	358.0	391.8
50°	218.4	255.4	276.7	309.8	311.7
55°	178.6	212.2	227.2	222.4	220.3
60°	142.7	162.5	165.5	147.5	136.8
65°	102.7	112.8	107.3	79.8	63.4
70°	73.3	76.3	65.2	52.4	43.7
75°	50.2	51.6	44.4	39.5	34.2
80°	31.8	30.1	27.7	24.5	22.1
85°	14.4	13.3	10.4	8.7	8.2
90°	3.6	1.5	0.3	0.2	0.1
95°	35.2	27.7	20.4	14.9	13.8
100°	81.1	63.4	56.2	52.2	50.4
105°	119.5	110.0	89.9	85.0	83.8
110°	161.5	157.4	131.4	120.0	116.8
115°	198.6	201.0	173.9	163.2	157.5
120°	233.3	246.5	218.3	206.6	201.8
125°	268.4	289.0	265.4	245.3	237.7
130°	300.6	330.8	305.3	287.1	282.8
135°	319.8	365.9	349.2	323.1	323.5
140°	334.1	394.2	383.2	365.1	362.2
145°	356.6	416.5	411.8	400.6	399.6
150°	373.0	434.2	442.0	429.8	413.1
155°	382.2	438.3	465.9	454.8	464.3
160°	391.4	428.2	476.9	480.5	488.8
165°	408.4	431.9	470.1	483.5	490.4
170°	416.1	426.5	461.9	463.6	493.6
175°	396.9	401.6	413.6	420.6	439.4
180°	431.1	431.1	431.1	431.1	431.1

(END OF REPORT)