

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: CTL58888

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58888
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-UXU-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: 2574.7 lumens
Efficiency: 88.8%
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.51 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: General Diffuse

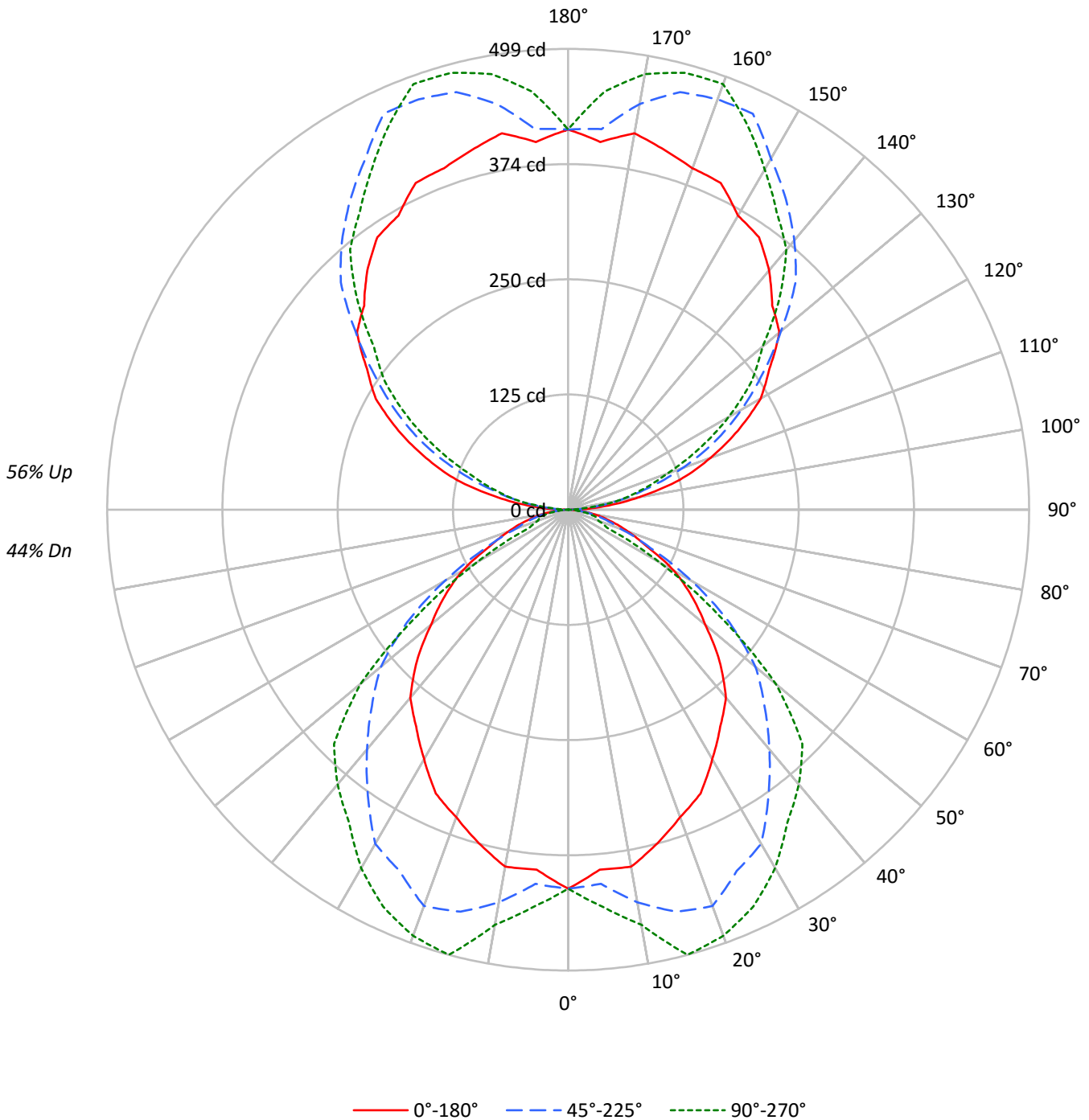
Input Watts (W): 39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	94	94	94	94	86	86	86	86	71	71	71	58	58	58	45	45	45	39																			
1	86	82	79	76	79	76	73	70	63	61	59	51	50	49	41	40	39	34																			
2	79	72	67	63	72	67	62	58	56	52	50	46	43	41	36	35	33	29																			
3	72	64	58	53	66	59	53	49	49	45	42	41	38	35	32	30	29	25																			
4	66	57	50	45	60	52	46	42	44	40	36	36	33	30	29	27	25	22																			
5	61	51	44	38	55	47	41	36	39	35	31	33	29	26	26	24	22	19																			
6	56	45	38	33	51	42	36	31	35	31	27	29	26	23	24	21	19	17																			
7	52	41	34	29	47	38	32	27	32	27	24	27	23	20	22	19	17	15																			
8	48	37	30	26	44	34	28	24	29	25	21	24	21	18	20	17	15	13																			
9	44	34	27	23	41	31	26	22	27	22	19	22	19	16	18	16	14	12																			
10	41	31	25	20	38	29	23	19	25	20	17	21	17	15	17	14	13	11																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1472	1472	1472
5°	1402	1431	1513
10°	1415	1501	1574
15°	1366	1562	1707
20°	1324	1589	1679
25°	1306	1519	1634
30°	1249	1499	1567
35°	1206	1394	1481
40°	1185	1295	1434
45°	1109	1202	1378
50°	1009	1120	1186
55°	940	963	853
60°	860	755	529
65°	701	529	236
70°	616	364	194
75°	536	287	199
80°	443	207	146
85°	269	96	66



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	39.8	1.5	1.4
10°-20°	123.3	4.8	4.3
20°-30°	194.2	7.5	6.7
30°-40°	231.1	9.0	8.0
40°-50°	231.7	9.0	8.0
50°-60°	177.5	6.9	6.1
60°-70°	90.4	3.5	3.1
70°-80°	42.9	1.7	1.5
80°-90°	12.2	0.5	0.4
90°-100°	28.5	1.1	1.0
100°-110°	102.4	4.0	3.5
110°-120°	177.8	6.9	6.1
120°-130°	234.5	9.1	8.1
130°-140°	260.9	10.1	9.0
140°-150°	251.0	9.7	8.7
150°-160°	206.2	8.0	7.1
160°-170°	129.5	5.0	4.5
170°-180°	41.0	1.6	1.4
0°-30°	357.2	13.9	12.3
0°-40°	588.3	22.9	20.3
0°-60°	997.5	38.7	34.4
0°-90°	1143.1	44.4	39.4
90°-120°	308.7	12.0	10.6
90°-150°	1055.0	41.0	36.4
90°-180°	1432.0	55.6	49.4
0°-180°	2574.7	100.0	88.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	410	410	410	410	410	
5°	391	399	407	421	432	38
15°	374	392	451	462	499	105
25°	339	386	432	462	474	155
35°	287	343	378	403	414	180
45°	232	277	300	333	358	178
55°	163	189	213	210	198	146
65°	93	104	98	66	47	96
75°	47	46	41	35	31	51
85°	11	11	10	8	8	13
90°	4	2	0	0	0	7
95°	35	30	20	15	14	40
105°	125	110	88	84	82	130
115°	203	201	176	162	156	200
125°	266	289	257	251	242	240
135°	312	362	348	324	323	244
145°	360	414	411	402	393	224
155°	390	440	473	463	459	178
165°	403	430	468	490	490	114
175°	400	411	414	429	455	39
180°	412	412	412	412	412	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	410.3	410.3	410.3	410.3	410.3
5°	391.2	399.3	406.6	420.7	431.7
10°	392.5	408.5	431.6	448.2	456.4
15°	373.7	391.9	450.6	462.0	498.9
20°	354.3	396.2	456.7	480.9	490.9
25°	339.0	385.9	431.7	462.2	474.1
30°	311.9	369.6	417.8	431.1	448.0
35°	286.9	343.4	377.9	402.7	413.6
40°	265.7	312.8	338.8	375.9	388.3
45°	231.6	276.9	300.5	333.3	358.4
50°	193.6	238.4	264.7	288.6	293.3
55°	163.2	189.2	213.0	209.6	198.5
60°	132.2	149.7	154.0	131.9	114.4
65°	93.2	104.3	98.2	66.4	46.8
70°	68.4	71.9	60.3	43.7	34.8
75°	47.3	46.2	41.4	34.9	31.4
80°	28.7	27.7	25.2	22.5	19.9
85°	11.0	11.1	9.5	8.0	7.5
90°	3.6	1.5	0.3	0.3	0.2
95°	35.4	30.0	19.7	14.7	13.6
100°	77.4	67.0	53.8	50.8	53.1
105°	125.0	109.6	87.6	84.3	81.6
110°	163.7	156.8	131.7	119.1	113.9
115°	202.6	201.4	175.8	161.8	156.2
120°	240.4	247.4	216.5	204.8	200.4
125°	265.8	288.8	256.9	251.3	242.3
130°	298.4	325.6	300.6	287.2	274.4
135°	312.4	362.5	348.1	324.1	323.4
140°	338.2	397.6	380.8	366.1	367.3
145°	360.1	414.3	410.8	402.0	393.4
150°	367.6	431.3	439.0	433.3	425.4
155°	390.5	440.0	473.0	462.8	459.3
160°	393.4	439.0	472.8	485.0	490.3
165°	403.1	430.1	468.1	489.9	489.7
170°	413.8	425.5	446.1	474.0	478.9
175°	399.7	410.7	413.7	428.6	454.6
180°	411.7	411.7	411.7	411.7	411.7

(END OF REPORT)