

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: CTL58887

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58887
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-DUD-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: 4499.3 lumens
Efficiency: 51.7%
Efficacy: 38.5 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1 / 1.13
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: General Diffuse

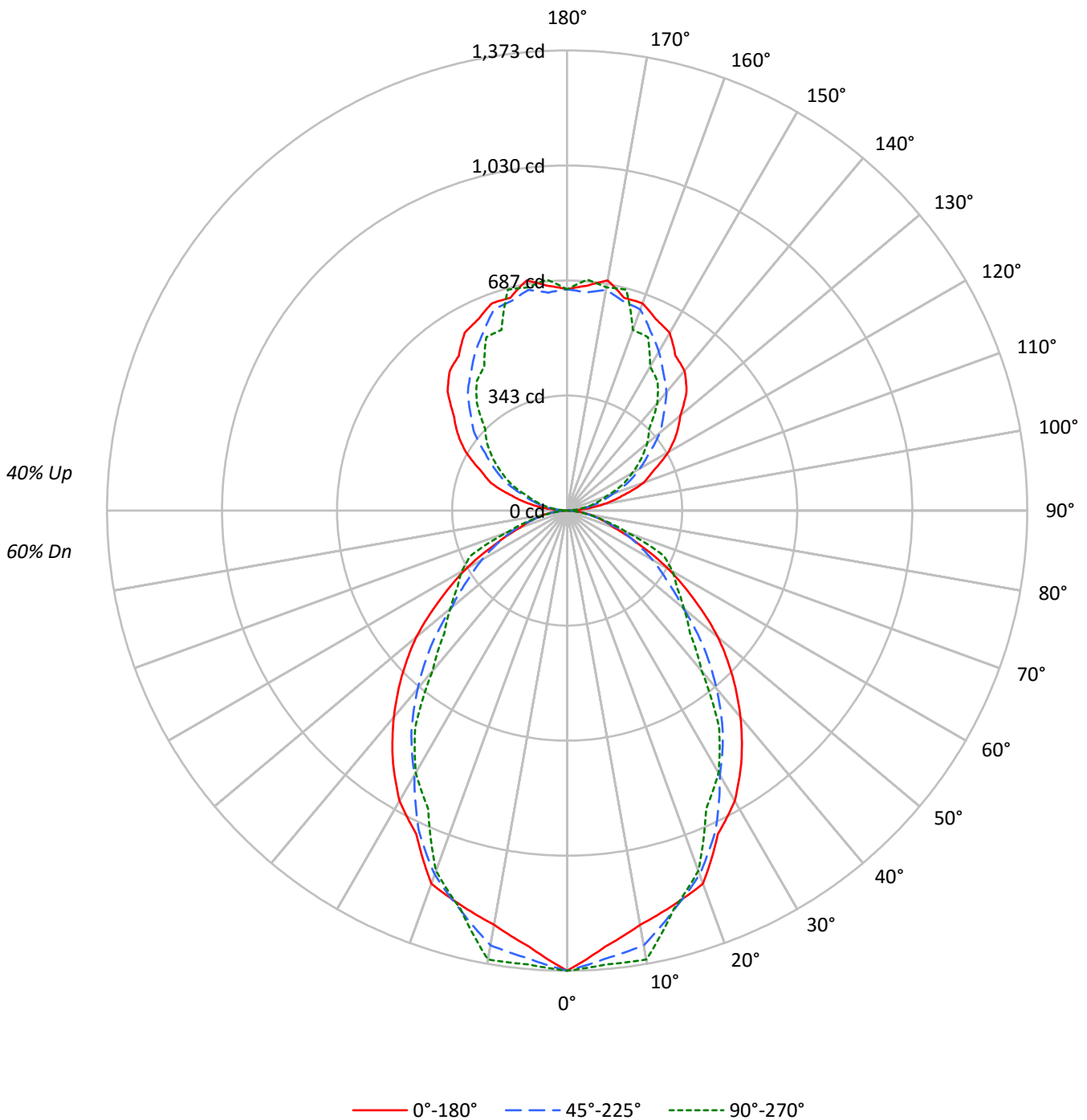
Input Watts (W): 117
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4926	4926	4926
5°	4679	4720	4761
10°	4525	4582	4692
15°	4459	4272	4210
20°	4428	4020	3912
25°	4101	3694	3382
30°	4005	3271	3159
35°	3815	2988	2829
40°	3588	2652	2308
45°	3340	2305	1996
50°	3060	1907	1840
55°	2660	1640	1716
60°	2266	1438	1679
65°	1757	1214	1596
70°	1351	1023	1058
75°	1208	723	732
80°	1047	516	424
85°	743	231	172



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	127.5	2.8	1.5
10°-20°	345.8	7.7	4.0
20°-30°	478.7	10.6	5.5
30°-40°	513.2	11.4	5.9
40°-50°	454.7	10.1	5.2
50°-60°	362.0	8.0	4.2
60°-70°	247.0	5.5	2.8
70°-80°	119.2	2.6	1.4
80°-90°	30.0	0.7	0.3
90°-100°	35.3	0.8	0.4
100°-110°	122.0	2.7	1.4
110°-120°	214.4	4.8	2.5
120°-130°	284.7	6.3	3.3
130°-140°	323.6	7.2	3.7
140°-150°	321.0	7.1	3.7
150°-160°	273.2	6.1	3.1
160°-170°	183.6	4.1	2.1
170°-180°	63.7	1.4	0.7
0°-30°	952.0	21.2	10.9
0°-40°	1465.1	32.6	16.8
0°-60°	2281.8	50.7	26.2
0°-90°	2678.0	59.5	30.8
90°-120°	371.6	8.3	4.3
90°-150°	1300.9	28.9	15.0
90°-180°	1821.0	40.5	20.9
0°-180°	4499.3	100.0	51.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1373	1373	1373	1373	1373	
5°	1306	1425	1341	1332	1359	124
15°	1220	1234	1233	1241	1230	345
25°	1065	1081	1050	1002	982	497
35°	907	858	810	772	790	567
45°	698	634	576	519	519	538
55°	462	432	362	388	399	415
65°	234	214	225	286	317	239
75°	107	107	104	114	116	114
85°	30	26	23	19	19	33
90°	4	3	1	0	1	12
95°	49	34	26	19	17	57
105°	171	133	104	90	90	184
115°	285	246	202	188	182	288
125°	398	364	298	275	270	355
135°	504	467	407	376	346	385
145°	564	564	500	473	471	358
155°	629	635	589	558	571	292
165°	657	658	646	635	682	189
175°	673	652	653	683	692	65
180°	660	660	660	660	660	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.9	1372.9	1372.9	1372.9	1372.9
5°	1305.9	1425.4	1341.3	1332.1	1358.8
10°	1255.0	1273.3	1317.0	1276.7	1360.3
15°	1219.6	1233.9	1232.7	1240.6	1230.3
20°	1184.9	1135.8	1155.5	1119.2	1143.7
25°	1064.8	1081.4	1049.7	1002.3	981.5
30°	1000.2	996.2	911.7	878.4	903.2
35°	907.4	857.5	810.3	772.2	790.4
40°	804.6	749.2	693.6	654.4	624.8
45°	697.6	634.2	576.0	519.3	519.0
50°	587.4	530.9	450.8	441.0	455.0
55°	461.6	432.4	362.5	388.0	399.4
60°	348.5	310.6	293.5	345.4	363.3
65°	233.5	213.6	225.2	286.4	316.8
70°	150.0	156.4	169.4	191.9	189.4
75°	106.6	107.1	104.3	113.7	115.7
80°	67.9	61.8	62.9	60.8	57.7
85°	30.4	26.5	22.8	18.9	19.4
90°	3.6	2.9	1.0	0.4	0.6
95°	49.0	34.4	25.5	18.9	16.9
100°	112.6	81.2	65.5	56.6	57.6
105°	170.6	132.8	103.6	89.5	90.2
110°	242.5	184.5	144.6	135.6	124.6
115°	285.2	245.9	202.4	188.3	182.3
120°	348.7	308.6	250.2	229.8	224.7
125°	398.4	363.6	298.1	275.4	269.6
130°	441.3	405.4	361.7	327.9	311.6
135°	504.1	466.8	407.0	376.4	346.2
140°	544.8	514.2	461.2	424.0	418.8
145°	563.6	564.0	500.5	472.7	470.6
150°	611.9	595.3	547.0	510.3	494.9
155°	628.9	634.7	589.2	558.1	570.8
160°	657.9	635.2	638.6	610.4	573.6
165°	657.1	657.5	646.4	635.2	682.1
170°	697.3	662.3	668.3	655.0	676.1
175°	673.3	651.6	652.9	683.0	691.6
180°	660.3	660.3	660.3	660.3	660.3

(END OF REPORT)