

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: CTL58880

Luminaire Tested: **NB-SW-3T8-DL7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58880
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-DL7
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & DOWNLIGHT KIT

Light Source: 32 WATT T8 LAMP
FP32T8/835. LUMEN RATING = 2900 LMS.
Ballast/Driver: -

Summary

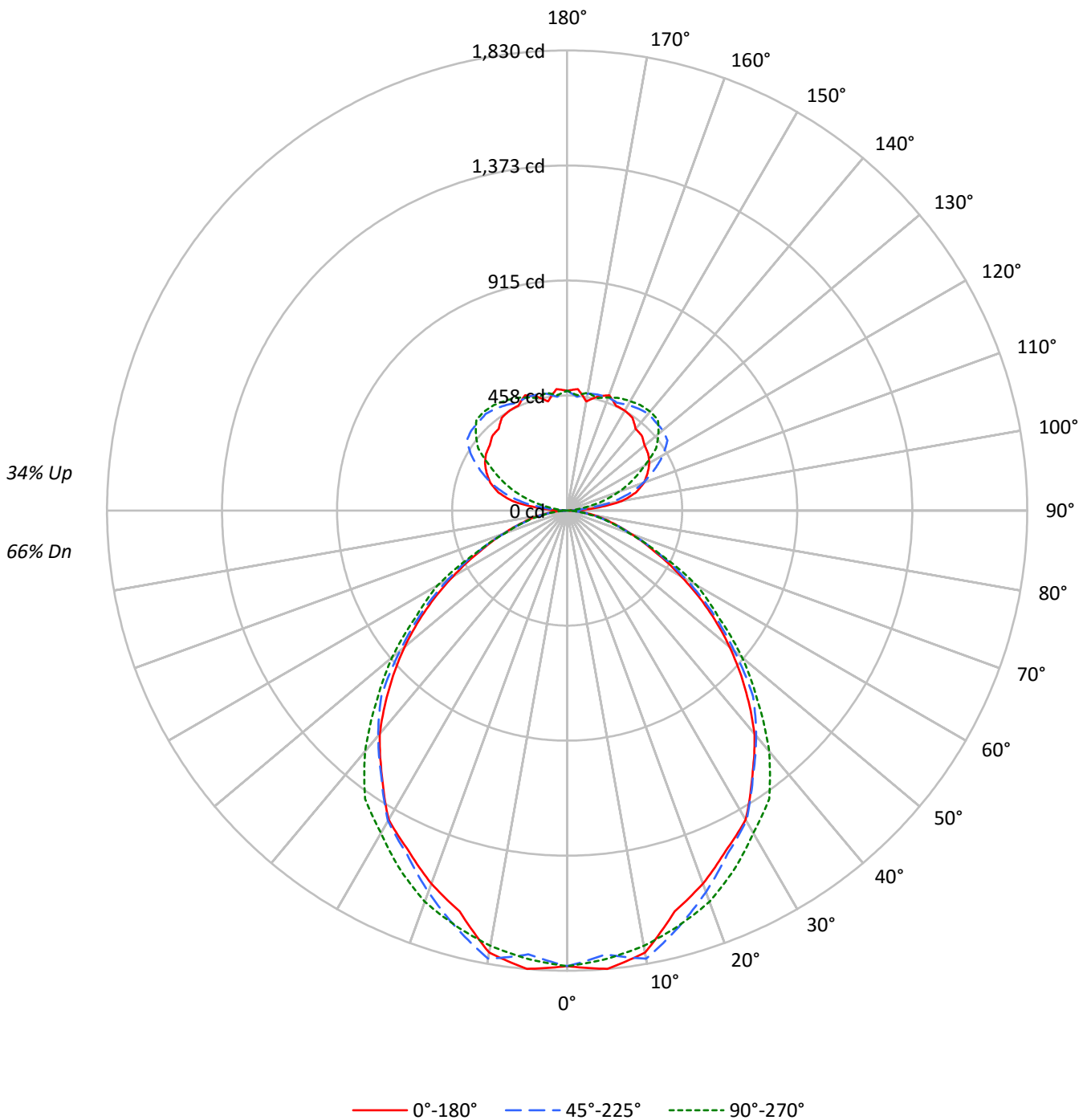
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 6413.7 lumens
Efficiency: 73.7%
Efficacy: 54.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

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	82	82	82	82	77	77	77	77	68	68	68		60	60	60		52	52	52	49
1	75	72	69	67	71	68	66	63	60	59	57		53	52	51		47	46	45	42
2	69	63	59	55	65	60	56	53	53	50	48		47	45	43		42	40	38	36
3	63	56	51	46	59	53	48	44	47	44	41		42	39	37		37	35	33	31
4	58	50	44	40	54	47	42	38	42	38	35		38	34	32		34	31	29	27
5	53	45	39	34	50	42	37	33	38	34	30		34	31	28		30	28	25	23
6	49	40	34	30	46	38	33	29	34	30	27		31	27	24		28	25	22	20
7	46	36	30	26	43	35	29	25	31	27	24		28	25	22		25	22	20	18
8	42	33	27	23	40	32	26	23	29	24	21		26	22	20		23	20	18	16
9	39	30	25	21	37	29	24	20	26	22	19		24	20	18		21	18	16	15
10	37	28	23	19	35	27	22	18	24	20	17		22	19	16		20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6500	6500	6500
5°	6555	6234	6272
10°	6435	6296	6063
15°	6034	5941	5851
20°	5900	5615	5663
25°	5748	5305	5423
30°	5686	5112	5180
35°	5400	4752	5013
40°	5170	4470	4617
45°	4791	4183	4123
50°	4396	3666	3672
55°	3935	3183	3143
60°	3405	2666	2751
65°	2868	2137	2033
70°	2429	1624	1455
75°	2043	1197	1101
80°	1726	839	676
85°	1171	367	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	171.6	2.7	2.0
10°-20°	480.3	7.5	5.5
20°-30°	704.6	11.0	8.1
30°-40°	822.2	12.8	9.5
40°-50°	795.4	12.4	9.1
50°-60°	632.7	9.9	7.3
60°-70°	398.9	6.2	4.6
70°-80°	191.1	3.0	2.2
80°-90°	49.5	0.8	0.6
90°-100°	75.3	1.2	0.9
100°-110°	253.1	3.9	2.9
110°-120°	356.7	5.6	4.1
120°-130°	401.0	6.3	4.6
130°-140°	373.3	5.8	4.3
140°-150°	306.7	4.8	3.5
150°-160°	222.1	3.5	2.6
160°-170°	133.7	2.1	1.5
170°-180°	45.5	0.7	0.5
0°-30°	1356.5	21.2	15.6
0°-40°	2178.7	34.0	25.0
0°-60°	3606.8	56.2	41.5
0°-90°	4246.2	66.2	48.8
90°-120°	685.2	10.7	7.9
90°-150°	1766.1	27.5	20.3
90°-180°	2167.0	33.8	24.9
0°-180°	6413.7	100.0	73.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1830	1805	1772	1830	1790	173
15°	1650	1700	1714	1704	1710	470
25°	1492	1517	1508	1544	1574	691
35°	1285	1282	1289	1338	1400	806
45°	1001	994	1045	1050	1072	773
55°	683	687	704	720	732	611
65°	381	384	396	412	404	385
75°	180	185	173	172	174	196
85°	48	44	36	31	33	54
90°	8	5	2	2	2	23
95°	106	81	52	25	20	114
105°	285	329	252	180	147	295
115°	353	419	382	316	288	349
125°	393	451	487	461	433	351
135°	420	448	498	520	510	323
145°	452	460	495	516	511	280
155°	460	468	473	496	494	216
165°	470	473	477	450	463	133
175°	485	499	454	490	460	45
180°	476	476	476	476	476	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1811.7	1811.7	1811.7	1811.7	1811.7
5°	1829.6	1805.0	1771.6	1830.5	1790.2
10°	1785.0	1753.9	1809.8	1802.0	1757.8
15°	1650.4	1700.3	1714.2	1704.0	1709.9
20°	1579.0	1633.3	1614.2	1617.8	1655.4
25°	1492.5	1517.2	1507.5	1544.0	1573.8
30°	1419.9	1421.1	1425.0	1443.6	1480.8
35°	1284.6	1282.3	1288.6	1338.0	1400.5
40°	1159.3	1157.9	1169.1	1226.6	1249.8
45°	1000.8	994.0	1045.3	1050.4	1072.1
50°	843.7	855.2	866.7	880.3	908.3
55°	682.8	686.7	703.6	719.6	731.6
60°	523.7	543.6	544.1	562.6	595.3
65°	381.2	383.5	396.5	411.7	403.5
70°	269.6	266.0	268.9	275.2	260.3
75°	180.3	184.7	172.7	172.2	174.1
80°	111.9	103.8	102.3	101.5	91.9
85°	47.9	44.0	36.2	31.0	33.4
90°	8.0	4.8	2.3	1.8	1.5
95°	106.0	81.3	51.8	24.8	19.8
100°	222.1	237.7	167.0	100.2	70.7
105°	285.0	329.0	251.8	179.5	147.0
110°	325.2	386.2	321.6	250.6	220.7
115°	353.0	418.8	382.2	316.0	287.6
120°	377.4	448.1	440.0	398.7	354.5
125°	393.4	451.4	486.8	461.1	432.6
130°	402.2	447.6	496.6	499.7	473.4
135°	420.4	448.1	497.6	520.4	510.4
140°	423.9	465.9	502.5	533.5	513.5
145°	451.8	460.2	495.0	515.9	511.1
150°	458.7	466.6	484.4	502.3	501.7
155°	460.2	468.3	472.6	495.6	493.8
160°	487.7	487.5	477.9	466.6	478.5
165°	469.5	472.8	477.3	450.3	463.1
170°	440.4	498.1	472.4	468.9	475.5
175°	485.0	499.0	453.9	490.0	460.2
180°	476.2	476.2	476.2	476.2	476.2

(END OF REPORT)