

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: CTL58881

Luminaire Tested: **NB-SW-3T8-DL8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58881
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-DL8
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

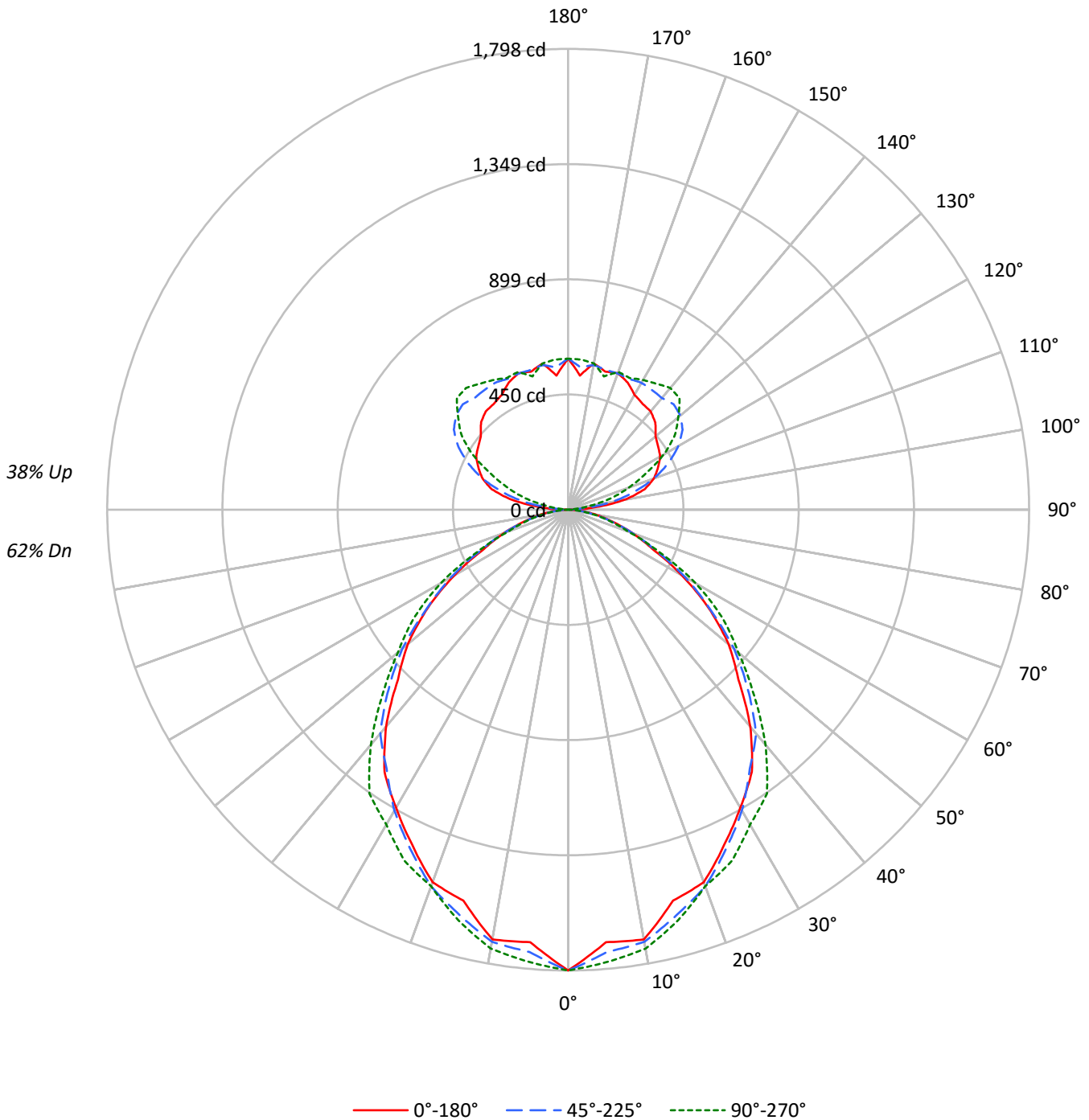
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 6560.7 lumens
Efficiency: 75.4%
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.18 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

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	83	83	83	83	78	78	78	78	68	68	68		59	59	59		51	51	51	47
1	76	73	70	68	71	69	66	64	60	58	57		53	51	50		46	45	44	40
2	70	64	60	56	65	60	56	53	53	50	48		47	44	42		41	39	37	34
3	64	57	51	47	60	53	49	45	47	43	40		42	39	36		36	34	32	30
4	59	50	45	40	55	48	42	38	42	38	35		37	34	31		33	30	28	26
5	54	45	39	34	50	43	37	33	38	34	30		34	30	27		29	27	25	22
6	50	41	34	30	47	38	33	29	34	30	26		30	27	24		27	24	22	20
7	46	37	31	27	43	35	29	25	31	27	23		28	24	21		25	22	19	18
8	43	33	28	24	40	32	26	23	29	24	21		25	22	19		23	20	17	16
9	40	31	25	21	37	29	24	20	26	22	19		23	20	17		21	18	16	14
10	37	28	23	19	35	27	22	18	24	20	17		22	18	16		19	16	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6450	6450	6450
5°	6068	6097	6205
10°	6138	5954	5997
15°	5773	5673	5673
20°	5780	5440	5348
25°	5552	5132	5207
30°	5377	4862	4963
35°	5251	4551	4838
40°	4927	4357	4422
45°	4496	3964	3943
50°	4255	3571	3502
55°	3852	3044	3150
60°	3330	2580	2656
65°	2721	2029	1982
70°	2394	1607	1390
75°	1992	1173	1035
80°	1640	784	669
85°	1141	369	266



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	166.0	2.5	1.9
10°-20°	461.5	7.0	5.3
20°-30°	677.0	10.3	7.8
30°-40°	793.6	12.1	9.1
40°-50°	765.8	11.7	8.8
50°-60°	613.8	9.4	7.1
60°-70°	386.1	5.9	4.4
70°-80°	185.5	2.8	2.1
80°-90°	48.2	0.7	0.6
90°-100°	76.3	1.2	0.9
100°-110°	270.4	4.1	3.1
110°-120°	401.6	6.1	4.6
120°-130°	454.9	6.9	5.2
130°-140°	431.6	6.6	5.0
140°-150°	355.0	5.4	4.1
150°-160°	260.4	4.0	3.0
160°-170°	158.7	2.4	1.8
170°-180°	54.0	0.8	0.6
0°-30°	1304.6	19.9	15.0
0°-40°	2098.2	32.0	24.1
0°-60°	3477.9	53.0	40.0
0°-90°	4097.8	62.5	47.1
90°-120°	748.2	11.4	8.6
90°-150°	1989.8	30.3	22.9
90°-180°	2463.0	37.5	28.3
0°-180°	6560.7	100.0	75.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1694	1771	1732	1737	1771	163
15°	1579	1667	1637	1594	1658	452
25°	1442	1464	1458	1464	1511	666
35°	1249	1238	1234	1314	1352	774
45°	939	971	991	1023	1025	733
55°	668	675	673	703	733	596
65°	362	367	376	405	393	371
75°	176	173	169	170	164	191
85°	47	42	36	34	30	52
90°	8	4	3	2	2	22
95°	101	78	52	27	20	114
105°	308	341	265	195	172	316
115°	386	466	432	380	333	382
125°	428	506	544	526	508	385
135°	481	516	582	596	615	369
145°	505	534	570	603	600	318
155°	548	553	563	573	567	252
165°	558	554	564	554	538	160
175°	525	568	557	570	588	53
180°	589	589	589	589	589	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1797.8	1797.8	1797.8	1797.8	1797.8
5°	1693.6	1771.0	1732.4	1736.9	1770.8
10°	1702.4	1716.3	1711.6	1712.4	1738.6
15°	1579.2	1667.0	1636.9	1594.5	1658.0
20°	1546.7	1565.9	1563.9	1568.6	1563.5
25°	1441.5	1463.5	1458.5	1464.1	1511.2
30°	1342.6	1343.8	1355.3	1416.2	1418.9
35°	1249.1	1237.5	1234.2	1314.2	1351.5
40°	1104.8	1106.4	1139.6	1204.4	1197.0
45°	939.1	970.6	990.8	1022.8	1025.1
50°	816.6	804.2	844.1	852.5	866.2
55°	668.5	675.0	672.9	702.9	733.2
60°	512.2	515.7	526.6	552.5	574.8
65°	361.7	367.2	376.4	404.8	393.3
70°	265.7	268.0	266.1	264.6	248.7
75°	175.8	172.7	169.3	170.2	163.6
80°	106.3	102.3	95.7	97.4	91.0
85°	46.7	42.3	36.4	33.6	30.1
90°	7.5	4.4	2.7	1.8	1.6
95°	100.6	78.3	52.3	27.3	20.5
100°	224.1	240.0	171.0	106.3	84.3
105°	308.0	341.0	264.8	195.0	172.4
110°	355.3	409.9	355.0	275.0	251.3
115°	386.0	466.0	431.7	380.2	332.8
120°	414.4	489.6	495.7	457.8	430.7
125°	428.3	505.7	544.3	525.6	508.5
130°	444.4	509.4	571.0	585.7	560.2
135°	480.7	515.6	581.6	596.5	614.6
140°	500.1	535.2	568.4	607.5	620.0
145°	505.1	534.5	569.9	602.8	599.8
150°	517.5	538.5	571.6	588.8	584.1
155°	547.7	552.8	562.8	572.6	567.0
160°	566.6	558.5	565.2	569.5	571.6
165°	558.0	554.4	564.0	554.2	538.0
170°	579.2	550.3	573.0	550.6	579.2
175°	524.8	567.6	556.6	569.9	587.8
180°	589.0	589.0	589.0	589.0	589.0

(END OF REPORT)