

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: CTL58841

Luminaire Tested: **NB-SW-2T8-DL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58841
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-2T8-DL1
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

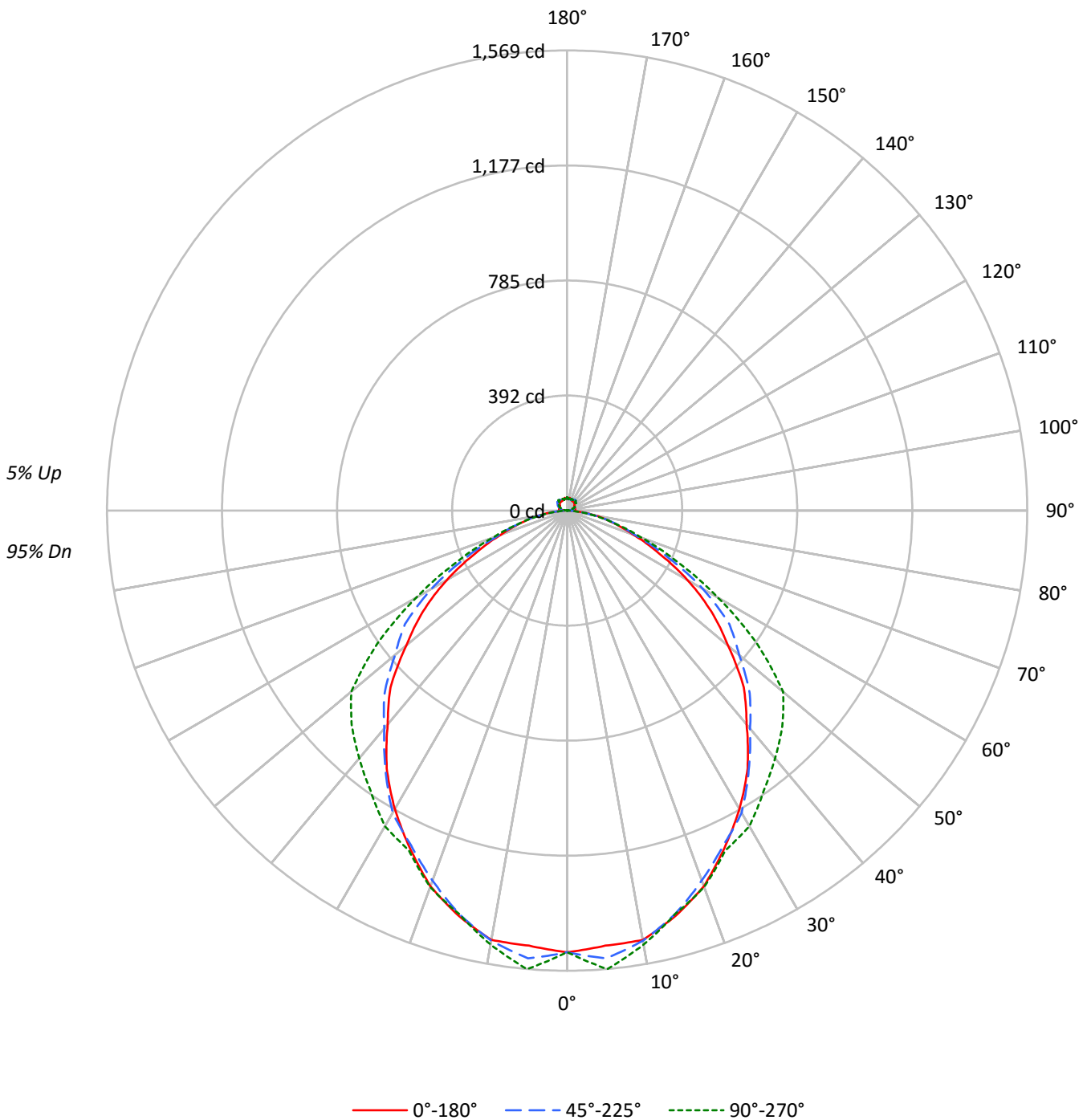
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3926.1 lumens
Efficiency: 67.7%
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Direct

Input Watts (W): 78
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	80	80	80	80	78	78	78	78	73	73	73		70	70	70		66	66	66	64
1	73	70	68	65	71	69	66	64	65	63	61		62	60	59		59	58	57	55
2	67	62	58	54	65	60	56	53	57	54	51		55	52	50		52	50	48	47
3	61	55	49	45	60	53	49	45	51	47	44		49	45	42		47	44	41	40
4	56	49	43	39	55	48	42	38	45	41	37		44	40	37		42	38	36	34
5	52	44	38	34	50	43	37	33	41	36	33		39	35	32		38	34	31	30
6	48	39	34	29	47	39	33	29	37	32	29		36	31	28		34	31	28	26
7	45	36	30	26	43	35	30	26	34	29	25		32	28	25		31	28	25	23
8	42	33	27	23	40	32	27	23	31	26	23		30	26	22		29	25	22	21
9	39	30	25	21	38	29	24	21	28	24	21		28	23	20		27	23	20	19
10	36	28	23	19	35	27	22	19	26	22	19		26	21	18		25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5403	5403	5403
5°	5336	5393	5499
10°	5359	5181	5184
15°	5229	4935	4873
20°	5093	4669	4673
25°	4887	4432	4402
30°	4707	4269	4348
35°	4509	3982	4181
40°	4245	3710	4073
45°	4078	3523	3993
50°	3733	3238	3885
55°	3458	3053	3391
60°	3083	2620	2744
65°	2596	2062	2094
70°	2159	1505	1504
75°	1821	1161	1050
80°	1542	773	666
85°	939	336	245



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	143.5	3.7	2.5
10°-20°	403.3	10.3	7.0
20°-30°	589.8	15.0	10.2
30°-40°	687.6	17.5	11.9
40°-50°	701.6	17.9	12.1
50°-60°	603.3	15.4	10.4
60°-70°	382.2	9.7	6.6
70°-80°	179.7	4.6	3.1
80°-90°	44.6	1.1	0.8
90°-100°	10.2	0.3	0.2
100°-110°	22.5	0.6	0.4
110°-120°	30.7	0.8	0.5
120°-130°	34.0	0.9	0.6
130°-140°	32.1	0.8	0.6
140°-150°	26.7	0.7	0.5
150°-160°	19.0	0.5	0.3
160°-170°	11.5	0.3	0.2
170°-180°	3.9	0.1	0.1
0°-30°	1136.6	29.0	19.6
0°-40°	1824.2	46.5	31.5
0°-60°	3129.1	79.7	54.0
0°-90°	3735.6	95.1	64.4
90°-120°	63.4	1.6	1.1
90°-150°	156.2	4.0	2.7
90°-180°	191.0	4.9	3.3
0°-180°	3926.1	100.0	67.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1489	1514	1533	1483	1569	142
15°	1430	1457	1424	1420	1424	403
25°	1269	1285	1259	1297	1278	585
35°	1072	1077	1080	1113	1168	669
45°	852	850	880	981	1038	651
55°	600	598	675	762	789	535
65°	345	351	383	409	416	347
75°	161	166	168	166	166	174
85°	38	40	33	29	28	46
90°	9	3	1	0	0	11
95°	25	14	7	4	3	18
105°	28	27	22	16	15	29
115°	27	33	34	31	30	27
125°	32	40	40	41	37	28
135°	35	39	44	46	38	27
145°	36	40	44	44	42	23
155°	37	42	43	38	41	18
165°	41	39	41	40	38	12
175°	38	41	39	39	39	4
180°	46	46	46	46	46	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.9	1505.9	1505.9	1505.9	1505.9
5°	1489.2	1514.1	1532.6	1482.8	1569.4
10°	1486.4	1466.6	1489.2	1502.0	1502.9
15°	1430.2	1457.1	1424.1	1420.1	1424.0
20°	1363.0	1356.3	1342.2	1373.7	1366.2
25°	1268.9	1285.4	1259.4	1296.9	1277.6
30°	1175.3	1173.6	1189.8	1210.9	1242.9
35°	1072.5	1076.8	1079.8	1113.0	1168.0
40°	951.9	961.4	970.2	1040.0	1102.7
45°	851.9	850.3	880.5	980.7	1038.2
50°	716.4	717.7	765.5	896.0	960.8
55°	600.0	597.8	674.9	762.3	789.4
60°	474.2	470.4	534.7	576.1	593.8
65°	345.0	350.7	382.6	408.9	415.5
70°	239.7	247.8	249.1	270.9	269.2
75°	160.7	166.4	167.6	166.1	166.0
80°	100.0	97.9	94.3	88.2	90.6
85°	38.4	39.8	33.2	29.4	27.7
90°	9.2	2.7	1.2	0.4	0.4
95°	24.8	13.9	6.6	3.7	2.7
100°	28.2	21.5	15.1	10.2	8.0
105°	28.4	26.7	21.6	15.6	15.0
110°	26.3	32.1	24.5	24.1	20.8
115°	27.2	33.3	33.6	31.3	29.8
120°	27.6	36.8	36.3	35.2	30.6
125°	31.5	39.9	39.6	41.2	37.3
130°	32.2	37.7	43.6	42.5	40.2
135°	35.2	38.8	44.1	46.3	37.8
140°	37.2	39.8	44.8	46.5	46.7
145°	36.5	40.1	44.5	44.0	41.5
150°	38.0	41.5	41.8	47.6	41.9
155°	36.8	41.6	43.0	38.4	40.8
160°	40.3	38.1	38.8	41.4	42.9
165°	41.2	39.1	41.0	40.4	38.5
170°	44.0	43.4	39.2	39.8	44.9
175°	38.5	41.0	38.7	39.0	38.8
180°	45.5	45.5	45.5	45.5	45.5

(END OF REPORT)