

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: CTL58875

Luminaire Tested: **NB-SW-3T8-DL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58875
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-DL2
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

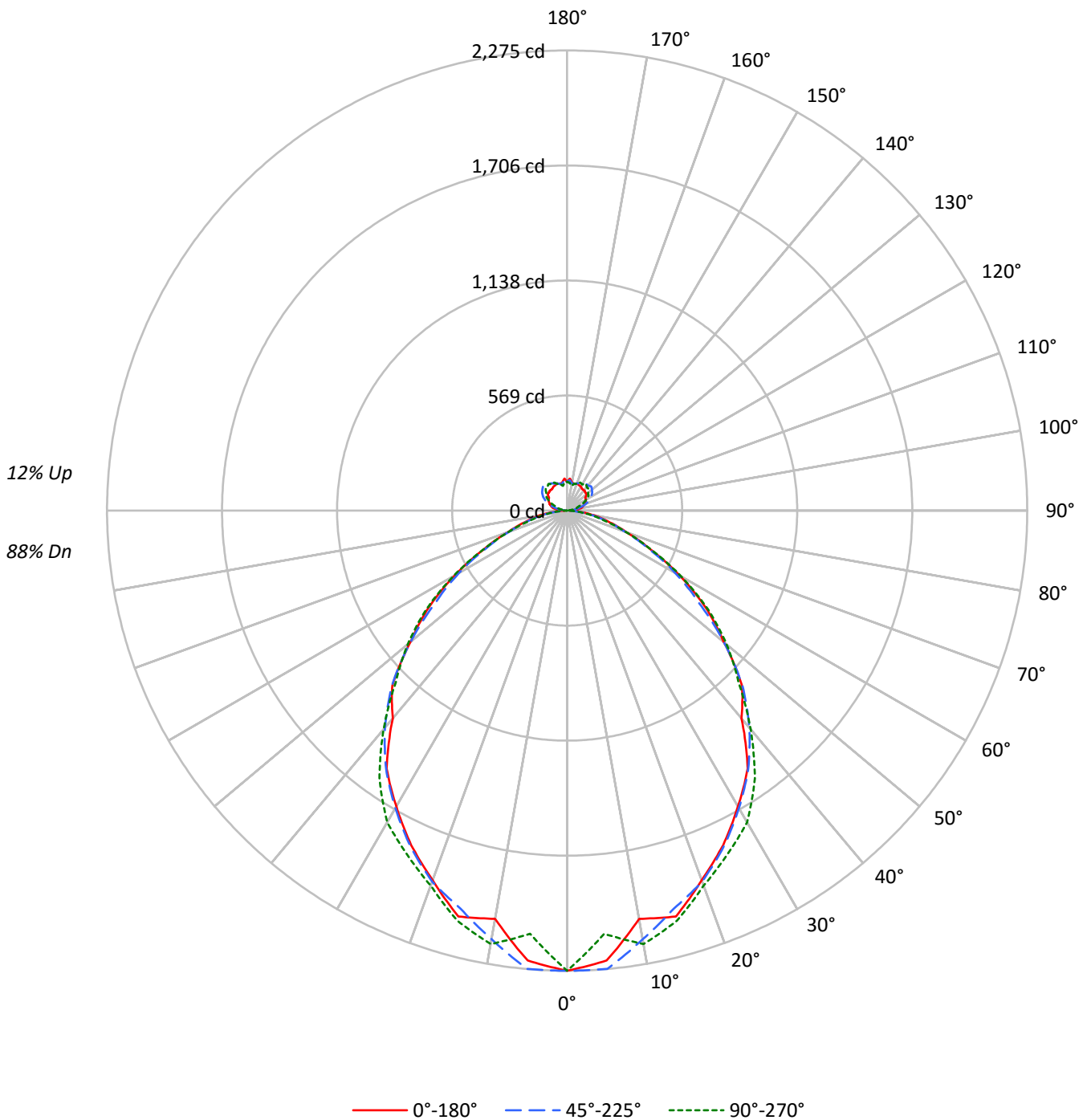
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 5675.1 lumens
Efficiency: 65.2%
Efficacy: 48.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.17 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 117
Input Voltage (V): NR
Input Current (Ain): 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	76	76	76	76	73	73	73	73	68	68	68	64	64	64	60	60	60	58
1	70	67	65	62	67	65	63	61	61	59	57	57	56	54	54	52	51	50
2	64	59	55	52	62	57	54	51	54	51	48	51	48	46	48	46	44	42
3	59	53	48	44	57	51	47	43	48	44	41	45	42	40	43	40	38	36
4	54	47	42	38	52	46	41	37	43	39	36	41	37	34	38	36	33	32
5	50	42	37	33	48	41	36	32	39	34	31	37	33	30	35	32	29	28
6	46	38	33	29	45	37	32	28	35	31	27	33	30	27	32	28	26	24
7	43	35	29	26	41	34	29	25	32	28	24	31	27	24	29	26	23	22
8	40	32	26	23	39	31	26	23	29	25	22	28	24	21	27	23	21	20
9	37	29	24	21	36	28	24	20	27	23	20	26	22	19	25	21	19	18
10	35	27	22	19	34	26	22	19	25	21	18	24	20	18	23	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8163	8163	8163
5°	8001	8004	7358
10°	7389	7485	7505
15°	7595	7060	7182
20°	7267	6790	6748
25°	7027	6448	6461
30°	6764	6095	6223
35°	6542	5756	5792
40°	5983	5358	5214
45°	5855	4906	4606
50°	5270	4278	4160
55°	4819	3597	3647
60°	4176	3026	3003
65°	3431	2385	2310
70°	2797	1828	1709
75°	2396	1386	1185
80°	2088	966	811
85°	1383	422	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	209.7	3.7	2.4
10°-20°	579.7	10.2	6.7
20°-30°	847.1	14.9	9.7
30°-40°	976.0	17.2	11.2
40°-50°	928.2	16.4	10.7
50°-60°	735.0	13.0	8.4
60°-70°	457.4	8.1	5.3
70°-80°	219.1	3.9	2.5
80°-90°	57.6	1.0	0.7
90°-100°	24.1	0.4	0.3
100°-110°	74.6	1.3	0.9
110°-120°	108.8	1.9	1.3
120°-130°	122.6	2.2	1.4
130°-140°	116.7	2.1	1.3
140°-150°	96.2	1.7	1.1
150°-160°	68.5	1.2	0.8
160°-170°	40.3	0.7	0.5
170°-180°	13.5	0.2	0.2
0°-30°	1636.6	28.8	18.8
0°-40°	2612.6	46.0	30.0
0°-60°	4275.8	75.3	49.1
0°-90°	5010.0	88.3	57.6
90°-120°	207.4	3.7	2.4
90°-150°	542.9	9.6	6.2
90°-180°	665.0	11.7	7.6
0°-180°	5675.1	100.0	65.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2233	2184	2274	2216	2100	207
15°	2077	2023	2037	2069	2099	576
25°	1825	1828	1832	1850	1875	840
35°	1556	1516	1561	1611	1618	961
45°	1223	1194	1226	1193	1198	926
55°	836	831	795	813	849	744
65°	456	452	442	463	458	461
75°	212	212	200	196	187	229
85°	57	52	42	38	38	65
90°	11	3	2	1	1	17
95°	45	29	14	9	6	40
105°	81	89	74	62	46	85
115°	98	119	119	107	89	98
125°	109	140	151	139	129	101
135°	127	142	168	158	150	99
145°	129	144	162	166	161	82
155°	138	153	147	148	153	64
165°	137	151	135	144	138	39
175°	159	132	150	144	137	14
180°	142	142	142	142	142	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2275.0	2275.0	2275.0	2275.0	2275.0
5°	2233.0	2183.6	2274.3	2216.4	2100.0
10°	2049.4	2138.6	2151.7	2207.2	2175.9
15°	2077.4	2022.6	2037.1	2069.0	2098.9
20°	1944.6	1952.2	1951.9	1946.9	1972.8
25°	1824.6	1828.0	1832.4	1850.3	1875.0
30°	1689.0	1695.1	1698.8	1715.0	1779.1
35°	1556.3	1516.3	1560.9	1611.2	1618.1
40°	1341.6	1373.5	1401.3	1394.5	1411.6
45°	1223.0	1194.3	1226.0	1193.1	1197.7
50°	1011.5	1024.4	1011.4	993.4	1028.9
55°	836.2	831.0	795.2	813.4	848.8
60°	642.3	640.9	617.5	635.7	649.9
65°	456.0	452.0	442.5	463.0	458.4
70°	310.5	310.1	302.6	308.7	305.8
75°	211.5	212.5	200.0	196.2	187.3
80°	135.4	124.6	117.9	111.9	110.4
85°	56.6	52.0	41.7	37.7	38.4
90°	10.9	3.4	1.9	0.8	0.6
95°	44.7	29.4	14.3	9.2	6.3
100°	70.1	59.8	44.6	33.4	24.2
105°	80.7	89.4	73.5	62.0	46.3
110°	91.5	109.7	99.7	81.9	61.8
115°	98.5	119.4	119.1	107.1	88.6
120°	107.7	133.0	137.3	131.1	109.3
125°	108.8	140.1	150.6	138.8	129.2
130°	125.7	139.6	160.2	151.6	134.8
135°	127.0	142.5	168.4	158.3	150.4
140°	130.6	148.5	161.0	164.6	151.0
145°	129.3	144.2	161.9	166.4	161.2
150°	136.3	145.3	155.0	157.1	149.0
155°	138.1	152.6	146.8	148.0	153.3
160°	142.8	145.5	143.7	149.1	139.4
165°	137.0	151.3	134.9	144.3	137.5
170°	140.1	132.8	136.0	152.3	123.8
175°	159.0	131.5	150.5	144.4	137.4
180°	142.3	142.3	142.3	142.3	142.3

(END OF REPORT)