

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: CTL58879

Luminaire Tested: **NB-SW-3T8-DL6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58879
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-DL6
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

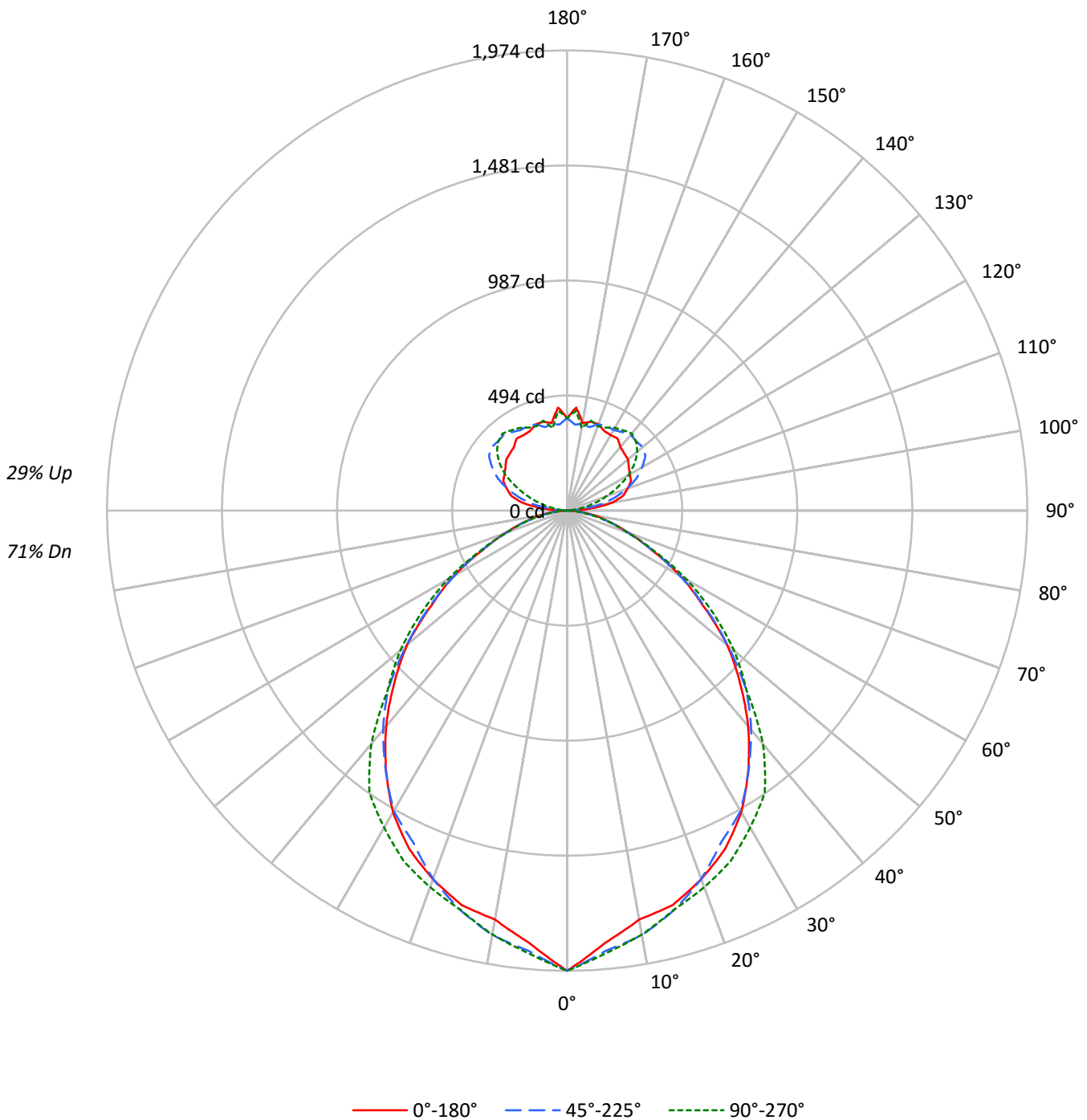
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 6243.0 lumens
Efficiency: 71.8%
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	80	80	80	80	76	76	76	76	68	68	68	61	61	61	54	54	54	54	54	54	54	54	54	51													
1	74	71	68	66	70	67	65	63	61	59	57	54	53	52	49	48	47	47	47	47	47	47	47	44													
2	68	62	58	54	64	59	55	52	54	50	48	48	46	44	43	41	40	40	40	40	40	40	40	37													
3	62	55	50	46	59	53	48	44	48	44	41	43	40	37	39	36	34	34	34	34	34	34	34	32													
4	57	49	43	39	54	47	42	38	42	38	35	38	35	32	35	32	30	30	30	30	30	30	30	28													
5	52	44	38	34	50	42	37	33	38	34	30	35	31	28	31	29	26	26	26	26	26	26	26	24													
6	48	40	34	30	46	38	33	29	35	30	27	31	28	25	29	26	23	23	23	23	23	23	23	21													
7	45	36	30	26	42	34	29	25	32	27	24	29	25	22	26	23	21	21	21	21	21	21	21	19													
8	42	33	27	23	40	31	26	23	29	24	21	26	23	20	24	21	19	19	19	19	19	19	19	17													
9	39	30	25	21	37	29	24	20	27	22	19	24	21	18	22	19	17	17	17	17	17	17	17	15													
10	37	28	22	19	35	27	22	18	25	20	17	23	19	16	21	18	15	15	15	15	15	15	15	14													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7082	7082	7082
5°	6670	6673	6678
10°	6422	6432	6369
15°	6401	6147	6065
20°	6287	5849	5879
25°	6169	5514	5717
30°	5984	5336	5491
35°	5696	5006	5293
40°	5387	4695	4832
45°	5027	4345	4184
50°	4667	3803	3778
55°	4100	3266	3272
60°	3649	2728	2731
65°	2997	2172	2083
70°	2537	1662	1533
75°	2109	1272	1172
80°	1859	840	705
85°	1239	415	274



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	180.1	2.9	2.1
10°-20°	503.3	8.1	5.8
20°-30°	739.1	11.8	8.5
30°-40°	861.3	13.8	9.9
40°-50°	825.7	13.2	9.5
50°-60°	657.6	10.5	7.6
60°-70°	413.3	6.6	4.8
70°-80°	197.8	3.2	2.3
80°-90°	51.1	0.8	0.6
90°-100°	64.9	1.0	0.7
100°-110°	212.6	3.4	2.4
110°-120°	301.8	4.8	3.5
120°-130°	336.5	5.4	3.9
130°-140°	314.2	5.0	3.6
140°-150°	254.6	4.1	2.9
150°-160°	182.5	2.9	2.1
160°-170°	109.7	1.8	1.3
170°-180°	37.2	0.6	0.4
0°-30°	1422.5	22.8	16.4
0°-40°	2283.7	36.6	26.2
0°-60°	3767.0	60.3	43.3
0°-90°	4429.1	70.9	50.9
90°-120°	579.3	9.3	6.7
90°-150°	1484.5	23.8	17.1
90°-180°	1814.0	29.1	20.9
0°-180°	6243.0	100.0	71.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1862	1903	1896	1870	1906	176
15°	1751	1796	1774	1810	1772	492
25°	1602	1596	1567	1619	1659	736
35°	1355	1359	1357	1394	1478	847
45°	1050	1047	1086	1076	1088	811
55°	711	727	722	752	762	644
65°	398	407	403	427	413	405
75°	186	185	184	178	185	204
85°	51	43	41	34	31	58
90°	9	5	2	1	1	23
95°	100	74	42	23	14	102
105°	249	274	209	151	119	256
115°	302	359	329	268	240	295
125°	323	385	410	379	353	290
135°	347	389	419	436	418	269
145°	377	393	411	424	420	233
155°	376	404	400	383	392	176
165°	394	396	371	382	399	111
175°	444	403	371	368	429	40
180°	396	396	396	396	396	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1973.9	1973.9	1973.9	1973.9	1973.9
5°	1861.5	1903.0	1896.1	1869.5	1906.0
10°	1781.3	1873.2	1848.9	1883.9	1846.6
15°	1751.0	1796.2	1773.7	1809.6	1772.4
20°	1682.4	1722.2	1681.4	1701.0	1718.7
25°	1601.9	1596.5	1567.1	1619.0	1659.1
30°	1494.4	1461.1	1487.3	1513.0	1569.7
35°	1355.0	1359.4	1357.4	1393.8	1478.5
40°	1208.0	1197.3	1228.0	1270.0	1308.1
45°	1050.0	1046.9	1086.0	1076.2	1087.9
50°	895.7	895.8	899.0	898.0	934.5
55°	711.4	727.3	722.0	752.2	761.7
60°	561.3	569.4	556.8	581.2	591.0
65°	398.4	407.1	403.0	427.2	413.4
70°	281.6	280.8	275.2	281.6	274.4
75°	186.1	185.1	183.6	177.9	185.3
80°	120.5	108.0	102.5	100.2	95.9
85°	50.7	43.3	41.0	34.2	31.0
90°	9.4	4.8	1.8	0.9	1.1
95°	100.3	73.8	41.7	22.8	14.0
100°	195.6	198.0	137.2	87.4	59.9
105°	249.1	273.9	208.6	150.7	118.7
110°	275.4	327.4	271.5	209.6	179.4
115°	302.3	359.3	328.6	268.0	240.0
120°	310.2	382.3	371.2	321.0	304.7
125°	322.6	385.4	409.5	379.2	352.9
130°	340.7	397.3	422.9	415.3	392.6
135°	346.7	389.2	419.3	436.2	418.2
140°	355.0	387.5	423.6	432.0	431.0
145°	377.3	392.6	411.0	423.5	420.1
150°	373.5	388.9	398.9	414.4	409.2
155°	376.4	403.7	399.6	383.2	392.2
160°	393.4	389.8	393.3	397.9	384.8
165°	394.2	396.0	370.6	382.2	398.8
170°	380.8	391.3	375.2	388.4	358.5
175°	443.6	403.1	370.8	367.6	429.1
180°	395.6	395.6	395.6	395.6	395.6

(END OF REPORT)