

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: 17892

Luminaire Tested: **NB-SC-3T8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 17892  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SC-3T8  
Description: NAVIGATOR II SUSPENDED LUMINAIRE  
WHITE INTERIOR WITH SPECULAR REFLECTORS AND WHITE LENS OVER CONCAVE PERF  
PANEL  
Light Source: THREE PHILIPS 32 WATT T8 LAMPS  
  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: -

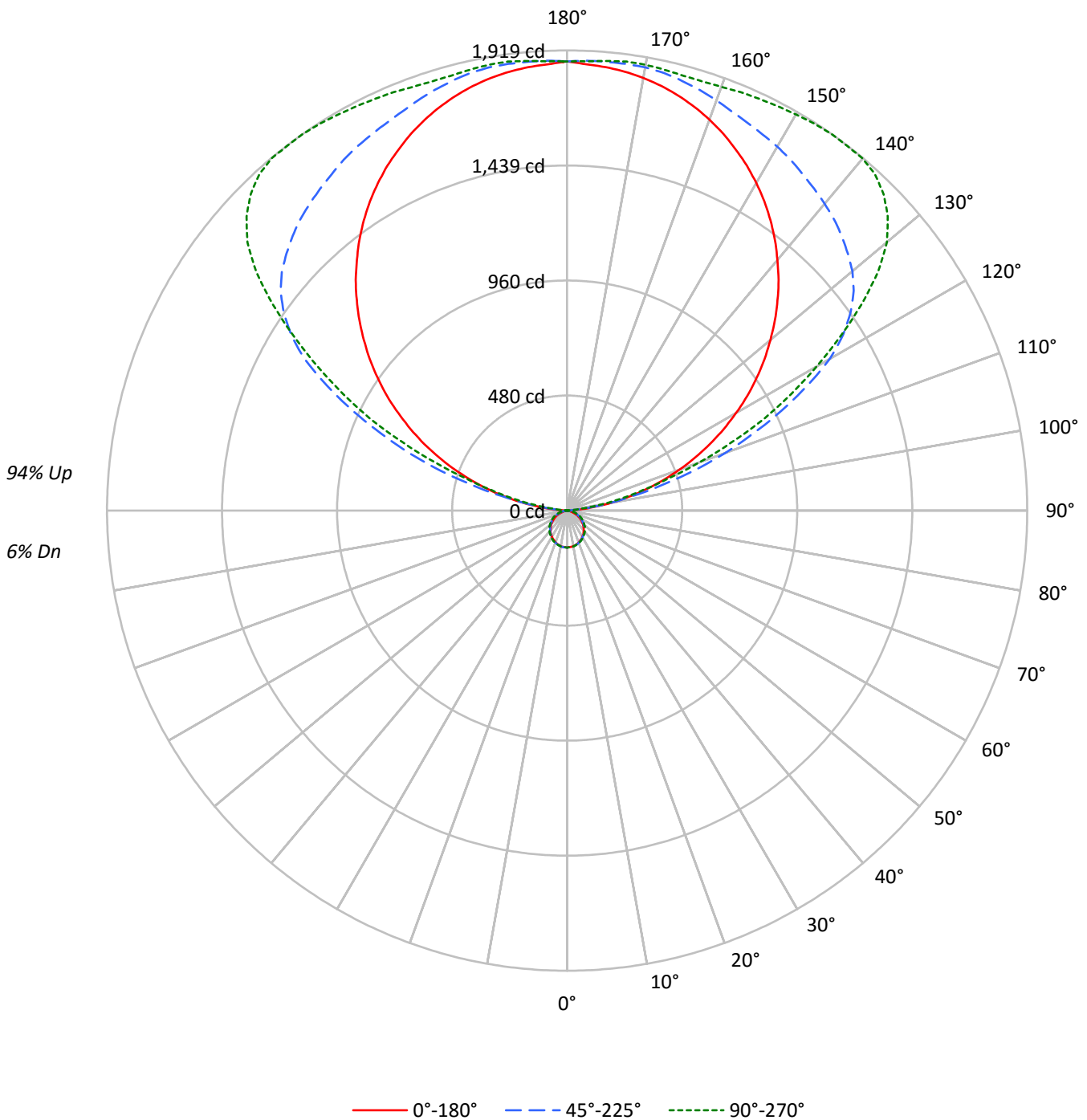
**Summary**

Lumens per Lamp: 3000 (3 lamps)  
Luminaire Lumens: 6813.3 lumens  
Efficiency: 75.7%  
Efficacy: 74.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.33' x L: 3.59' x H: 0')  
CIE Type: Indirect  
  
Input Watts (W): 92  
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	73	73	73	73	63	63	63	63	45	45	45	28	28	28	12	12	12	5
1	67	64	61	58	57	55	53	51	39	38	36	24	23	23	11	10	10	4
2	61	55	51	48	52	48	44	42	34	32	30	21	20	19	9	9	8	3
3	55	49	43	39	47	42	38	35	30	27	25	19	17	16	8	8	7	3
4	50	43	37	33	43	37	33	29	26	24	21	17	15	14	7	7	6	2
5	46	38	32	28	40	33	28	25	24	20	18	15	13	12	7	6	5	2
6	42	34	28	24	36	29	25	21	21	18	16	13	11	10	6	5	5	2
7	39	30	25	21	33	26	22	18	19	16	13	12	10	9	5	5	4	2
8	36	27	22	18	31	24	19	16	17	14	12	11	9	8	5	4	4	1
9	33	25	19	16	29	22	17	14	15	12	10	10	8	7	4	4	3	1
10	31	22	17	14	27	20	15	12	14	11	9	9	7	6	4	3	3	1

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1406	1406	1406
5°	1389	1402	1404
10°	1389	1399	1402
15°	1377	1386	1399
20°	1367	1372	1388
25°	1342	1361	1384
30°	1328	1346	1366
35°	1315	1337	1357
40°	1281	1313	1351
45°	1232	1303	1340
50°	1206	1271	1323
55°	1153	1232	1313
60°	1063	1214	1297
65°	970	1167	1277
70°	778	1124	1235
75°	572	1043	1176
80°	419	905	1026
85°	344	688	792



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	14.6	0.2	0.2
10°-20°	41.6	0.6	0.5
20°-30°	62.5	0.9	0.7
30°-40°	75.0	1.1	0.8
40°-50°	77.5	1.1	0.9
50°-60°	69.7	1.0	0.8
60°-70°	52.4	0.8	0.6
70°-80°	29.2	0.4	0.3
80°-90°	7.2	0.1	0.1
90°-100°	60.9	0.9	0.7
100°-110°	424.0	6.2	4.7
110°-120°	888.5	13.0	9.9
120°-130°	1187.6	17.4	13.2
130°-140°	1223.7	18.0	13.6
140°-150°	1071.1	15.7	11.9
150°-160°	826.0	12.1	9.2
160°-170°	522.9	7.7	5.8
170°-180°	178.9	2.6	2.0
0°-30°	118.7	1.7	1.3
0°-40°	193.8	2.8	2.2
0°-60°	340.9	5.0	3.8
0°-90°	429.7	6.3	4.8
90°-120°	1373.4	20.2	15.3
90°-150°	4855.7	71.3	54.0
90°-180°	6384.0	93.7	70.9
0°-180°	6813.3	100.0	75.7

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	155	155	155	155	155	
5°	152	154	154	154	154	15
15°	146	146	147	149	149	41
25°	134	135	136	137	138	62
35°	119	118	120	121	122	74
45°	96	97	101	102	104	75
55°	73	74	78	82	83	64
65°	45	48	54	58	59	44
75°	16	24	30	32	34	18
85°	3	4	7	8	8	3
90°	0	0	0	0	0	1
95°	51	50	22	7	6	71
105°	338	495	406	343	325	358
115°	657	901	987	939	906	650
125°	965	1133	1444	1486	1498	862
135°	1241	1363	1619	1820	1866	957
145°	1478	1566	1713	1870	1919	924
155°	1662	1717	1783	1870	1894	766
165°	1791	1823	1855	1880	1877	506
175°	1856	1870	1878	1890	1882	176
180°	1873	1873	1873	1873	1873	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	154.8	154.8	154.8	154.8	154.8
2.5°	152.8	154.4	153.9	155.1	153.4
5°	152.3	153.9	153.7	154.2	153.9
7.5°	152.0	152.0	153.4	153.4	152.8
10°	150.6	151.0	151.6	151.6	152.0
12.5°	148.7	148.7	149.2	150.1	149.6
15°	146.4	146.4	147.3	148.7	148.7
17.5°	143.6	145.0	145.9	145.5	145.9
20°	141.4	140.3	141.9	142.2	143.6
22.5°	137.1	138.1	140.0	139.5	140.8
25°	133.9	134.8	135.8	136.7	138.1
27.5°	131.1	130.7	132.0	133.0	134.3
30°	126.6	126.4	128.3	129.7	130.2
32.5°	122.3	121.9	124.6	125.6	127.0
35°	118.6	118.1	120.5	121.0	122.3
37.5°	112.7	113.6	115.8	116.7	119.1
40°	108.0	108.5	110.7	112.6	113.9
42.5°	102.4	103.3	106.1	108.0	108.9
45°	95.9	97.3	101.4	102.3	104.3
47.5°	91.3	91.7	95.9	97.3	100.5
50°	85.3	86.1	89.9	91.7	93.6
52.5°	78.3	80.1	85.3	87.2	88.9
55°	72.8	74.1	77.8	81.6	82.9
57.5°	64.9	69.1	73.3	75.5	77.8
60°	58.5	60.9	66.8	69.1	71.4
62.5°	52.5	55.3	60.9	64.0	65.9
65°	45.1	47.7	54.3	57.5	59.4
67.5°	36.6	40.9	47.7	51.5	52.4
70°	29.3	35.4	42.3	44.2	46.5
72.5°	22.0	28.4	37.1	38.1	39.5
75°	16.3	23.7	29.7	32.1	33.5
77.5°	10.4	18.6	23.7	25.1	26.5
80°	8.0	14.0	17.3	20.5	19.6
82.5°	4.3	8.5	12.6	13.1	14.0
85°	3.3	4.3	6.6	7.6	7.6
87.5°	0.5	0.5	0.5	3.3	2.0
90°	0.5	0.5	0.5	0.5	0.5
92.5°	9.0	5.7	3.8	3.4	2.9
95°	50.7	49.6	21.5	7.1	6.2
97.5°	113.4	130.1	95.5	63.9	61.3
100°	185.3	273.6	179.2	172.7	140.8
102.5°	261.1	334.3	280.6	219.5	228.6
105°	338.0	494.8	406.0	342.6	324.9
107.5°	417.1	631.7	553.2	478.1	438.0
110°	498.0	740.5	699.7	620.8	584.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	578.1	827.4	839.6	784.1	741.0
115°	657.3	901.1	987.1	939.0	905.7
117.5°	736.3	966.4	1130.1	1088.0	1053.7
120°	812.6	1029.8	1265.3	1238.9	1201.0
122.5°	891.3	1106.5	1365.2	1423.6	1351.3
125°	965.0	1133.4	1443.5	1485.6	1498.5
127.5°	1037.6	1200.1	1506.3	1633.5	1633.5
130°	1106.5	1256.9	1553.0	1715.5	1740.9
132.5°	1175.1	1312.0	1587.3	1776.1	1813.6
135°	1240.8	1362.9	1619.2	1819.6	1866.3
137.5°	1305.4	1411.4	1647.5	1843.7	1901.1
140°	1364.2	1459.2	1670.6	1856.2	1916.9
142.5°	1423.4	1505.9	1691.5	1863.2	1917.2
145°	1478.1	1565.5	1712.7	1869.6	1918.6
147.5°	1529.9	1588.3	1734.8	1871.0	1914.8
150°	1577.5	1639.7	1752.5	1870.1	1907.5
152.5°	1622.5	1681.3	1767.4	1869.5	1901.1
155°	1662.3	1717.4	1783.1	1870.0	1894.5
157.5°	1701.2	1750.2	1800.3	1870.0	1888.6
160°	1734.9	1780.3	1820.1	1869.6	1880.2
162.5°	1765.4	1803.9	1838.7	1871.9	1876.4
165°	1791.4	1822.9	1854.7	1879.7	1876.9
167.5°	1814.0	1843.6	1869.1	1890.4	1882.6
170°	1832.1	1850.2	1876.4	1892.2	1887.7
172.5°	1846.0	1863.0	1878.8	1893.1	1888.6
175°	1856.2	1870.0	1878.4	1889.9	1882.1
177.5°	1862.5	1873.3	1877.9	1884.8	1875.0
180°	1873.0	1873.0	1873.0	1873.0	1873.0

(END OF REPORT)