

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: 17883

Luminaire Tested: **NB-SC-3T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17883
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SC-3T5
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND WHITE LENS OVER CONCAVE PERF
PANEL
Light Source: THREE PHILIPS 54 WATT T5 LAMPS

F54T5.841HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

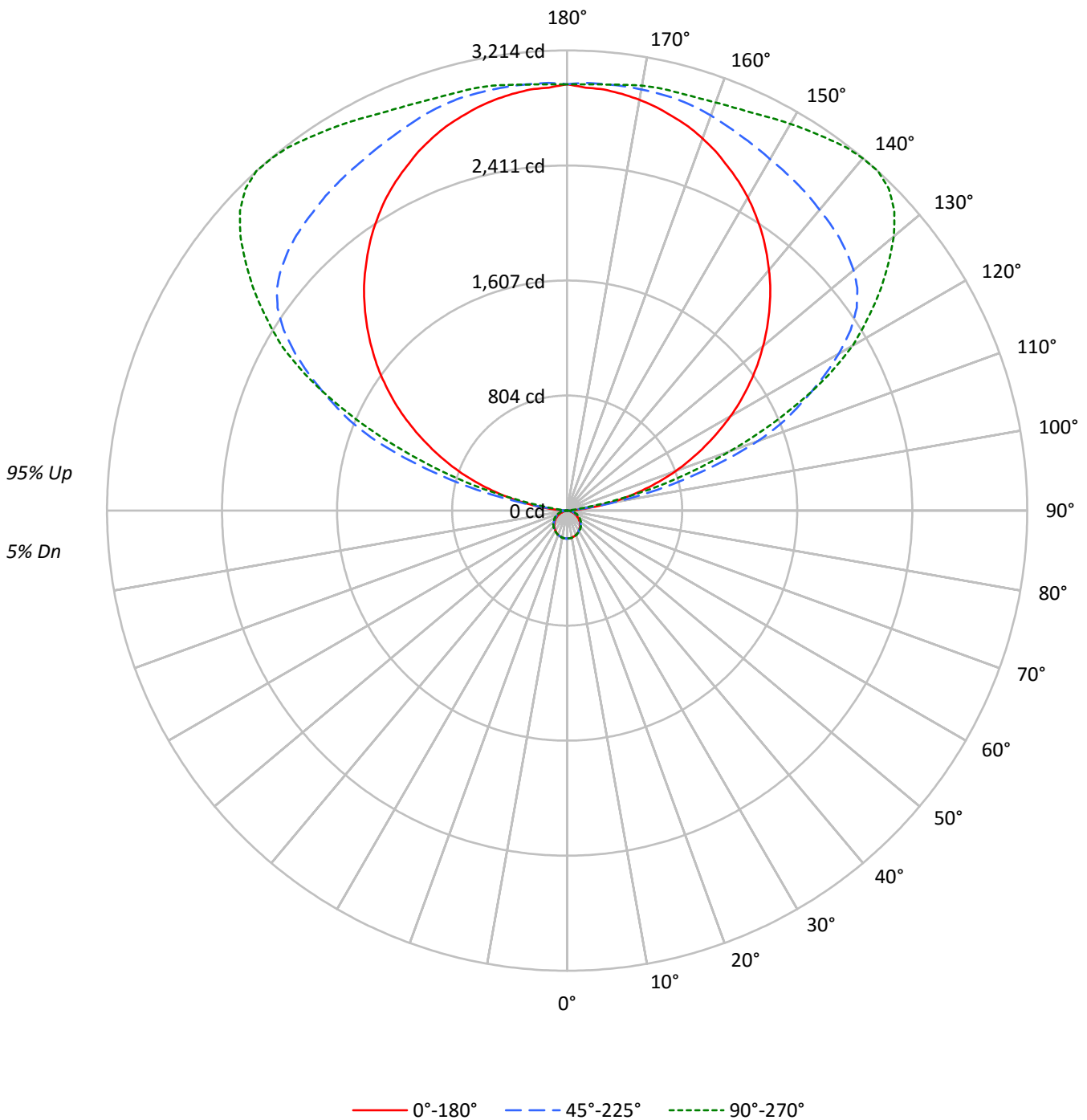
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 11385.8 lumens
Efficiency: 84.3%
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.33' x L: 3.59' x H: 0')
CIE Type: Indirect

Input Watts (W): 180
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	81	81	81	81	70	70	70	70	49	49	49	30	30	30	13	13	13	4
1	74	71	67	65	64	61	58	56	43	41	40	26	25	25	11	11	10	4
2	67	61	57	53	58	53	49	46	37	35	33	23	22	21	10	9	9	3
3	61	54	48	44	53	47	42	38	33	30	28	20	19	17	8	8	7	2
4	56	47	41	37	48	41	36	32	29	26	23	18	16	15	7	7	6	2
5	51	42	36	31	44	36	31	27	26	22	20	16	14	13	7	6	5	2
6	47	37	31	27	40	32	27	23	23	20	17	14	12	11	6	5	5	2
7	43	34	27	23	37	29	24	20	21	17	15	13	11	9	5	5	4	1
8	40	30	24	20	34	26	21	18	19	15	13	12	10	8	5	4	4	1
9	37	27	22	18	32	24	19	15	17	14	11	11	9	7	5	4	3	1
10	34	25	19	15	29	22	17	14	15	12	10	10	8	6	4	3	3	1

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1769	1769	1769
5°	1789	1766	1776
10°	1786	1763	1776
15°	1757	1757	1770
20°	1747	1758	1758
25°	1729	1757	1743
30°	1715	1701	1742
35°	1678	1723	1754
40°	1676	1735	1765
45°	1627	1714	1760
50°	1582	1713	1789
55°	1529	1693	1773
60°	1466	1683	1799
65°	1281	1675	1821
70°	1126	1650	1830
75°	937	1678	1815
80°	853	1674	1753
85°	876	1845	1699



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.4	0.2	0.1
10°-20°	53.0	0.5	0.4
20°-30°	80.1	0.7	0.6
30°-40°	96.7	0.8	0.7
40°-50°	102.1	0.9	0.8
50°-60°	94.2	0.8	0.7
60°-70°	73.7	0.6	0.5
70°-80°	46.2	0.4	0.3
80°-90°	16.4	0.1	0.1
90°-100°	103.6	0.9	0.8
100°-110°	809.1	7.1	6.0
110°-120°	1625.5	14.3	12.0
120°-130°	2031.7	17.8	15.0
130°-140°	2036.0	17.9	15.1
140°-150°	1747.7	15.3	12.9
150°-160°	1330.8	11.7	9.9
160°-170°	836.2	7.3	6.2
170°-180°	284.3	2.5	2.1
0°-30°	151.6	1.3	1.1
0°-40°	248.2	2.2	1.8
0°-60°	444.5	3.9	3.3
0°-90°	580.9	5.1	4.3
90°-120°	2538.2	22.3	18.8
90°-150°	8353.6	73.4	61.9
90°-180°	10805.0	94.9	80.0
0°-180°	11385.8	100.0	84.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	195	195	195	195	195	
5°	196	195	194	192	195	19
15°	187	190	187	187	188	53
25°	172	172	175	176	174	80
35°	151	152	155	158	158	95
45°	127	127	133	136	137	98
55°	96	99	107	110	112	85
65°	60	66	78	80	85	61
75°	27	37	48	50	52	30
85°	8	15	18	16	16	9
90°	0	0	0	0	0	3
95°	86	90	23	22	24	113
105°	541	915	855	717	659	573
115°	1061	1519	1826	1843	1792	1051
125°	1560	1873	2469	2600	2666	1393
135°	1999	2221	2691	3080	3178	1541
145°	2371	2532	2793	3062	3171	1482
155°	2653	2751	2884	3014	3065	1224
165°	2850	2899	2974	3016	3020	805
175°	2952	2968	2990	2994	2987	281
180°	2977	2977	2977	2977	2977	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	194.7	194.7	194.7	194.7	194.7
2.5°	193.6	193.6	197.5	195.0	193.6
5°	196.1	194.7	193.6	192.5	194.7
7.5°	193.6	193.6	192.5	192.5	193.6
10°	193.6	191.1	191.1	191.1	192.5
12.5°	188.2	191.1	191.1	189.7	189.7
15°	186.8	189.7	186.8	187.1	188.2
17.5°	184.3	184.6	184.3	185.7	185.7
20°	180.7	181.8	181.8	183.2	181.8
22.5°	177.8	175.3	178.9	179.3	178.9
25°	172.5	172.5	175.3	176.4	173.9
27.5°	168.5	167.4	170.0	171.4	171.0
30°	163.5	162.1	162.1	164.6	166.0
32.5°	158.1	156.7	158.1	162.1	162.1
35°	151.3	151.7	155.3	158.1	158.1
37.5°	144.9	146.3	151.3	150.2	152.8
40°	141.3	139.5	146.3	145.2	148.8
42.5°	133.4	134.5	139.9	140.9	140.9
45°	126.6	126.6	133.4	135.9	137.0
47.5°	120.2	122.7	126.6	131.6	133.4
50°	111.9	114.8	121.2	122.7	126.6
52.5°	105.5	106.9	113.3	116.2	119.8
55°	96.5	99.0	106.9	109.8	111.9
57.5°	83.3	95.1	100.5	105.5	105.5
60°	80.7	83.3	92.6	95.1	99.0
62.5°	71.4	75.4	85.8	90.1	89.7
65°	59.6	66.1	77.9	80.4	84.7
67.5°	55.7	58.2	68.9	72.5	76.8
70°	42.4	51.7	62.1	64.6	68.9
72.5°	36.0	43.8	54.2	59.6	61.0
75°	26.7	37.4	47.8	50.3	51.7
77.5°	20.2	32.0	41.3	39.9	45.3
80°	16.3	24.1	32.0	33.5	33.5
82.5°	13.8	20.2	22.7	26.7	24.1
85°	8.4	14.8	17.7	16.3	16.3
87.5°	3.0	6.9	8.4	9.5	12.3
90°	0.5	0.5	0.5	0.5	0.5
92.5°	20.2	13.8	17.7	20.2	23.1
95°	86.1	89.7	22.7	21.6	24.1
97.5°	175.3	278.9	133.4	53.2	25.6
100°	290.7	546.5	337.6	277.4	171.4
102.5°	411.4	652.9	595.2	381.0	377.4
105°	541.1	915.1	854.9	717.0	659.3
107.5°	674.0	1099.3	1137.2	976.7	925.5
110°	807.6	1263.0	1416.7	1255.4	1206.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	933.7	1408.4	1644.9	1559.6	1500.5
115°	1060.9	1519.1	1825.8	1843.3	1791.7
117.5°	1189.5	1620.1	2013.5	2100.2	2064.7
120°	1316.7	1715.8	2192.3	2287.9	2303.3
122.5°	1441.4	1830.1	2347.0	2521.5	2484.6
125°	1559.6	1873.4	2469.2	2600.3	2665.9
127.5°	1676.4	1980.9	2554.5	2804.9	2827.1
130°	1786.7	2060.8	2611.8	2934.6	2979.3
132.5°	1894.2	2136.7	2655.1	3032.0	3099.0
135°	1999.2	2220.9	2690.6	3080.4	3177.8
137.5°	2100.2	2295.8	2718.2	3093.3	3214.4
140°	2193.3	2370.7	2742.2	3088.6	3211.5
142.5°	2284.0	2442.7	2770.8	3078.9	3198.6
145°	2370.7	2531.9	2793.4	3062.1	3171.0
147.5°	2449.5	2564.9	2814.2	3055.7	3144.9
150°	2525.4	2644.7	2835.0	3038.5	3118.7
152.5°	2592.4	2701.0	2860.1	3024.1	3090.8
155°	2652.6	2751.1	2883.7	3013.7	3064.6
157.5°	2714.6	2797.4	2909.8	3011.2	3046.3
160°	2765.5	2835.3	2936.4	3009.8	3033.4
162.5°	2813.1	2867.6	2958.2	3006.9	3022.7
165°	2849.7	2899.1	2974.3	3016.2	3020.2
167.5°	2884.8	2925.6	2981.9	3020.2	3020.2
170°	2913.8	2934.9	2986.2	3016.2	3013.7
172.5°	2934.9	2957.1	2990.1	3004.4	2999.4
175°	2952.1	2967.5	2990.1	2994.0	2987.2
177.5°	2957.1	2972.9	2990.1	2986.2	2979.3
180°	2977.3	2977.3	2977.3	2977.3	2977.3

(END OF REPORT)