

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: CTL58833

Luminaire Tested: **NB-SW-2T5-DL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58833
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-2T5-DL1
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & DOWNLIGHT KIT

Light Source: 54 WATT T5 LAMP
FP54T5/835HO. LUMEN RATING = 5000 LMS.
Ballast/Driver: -

Summary

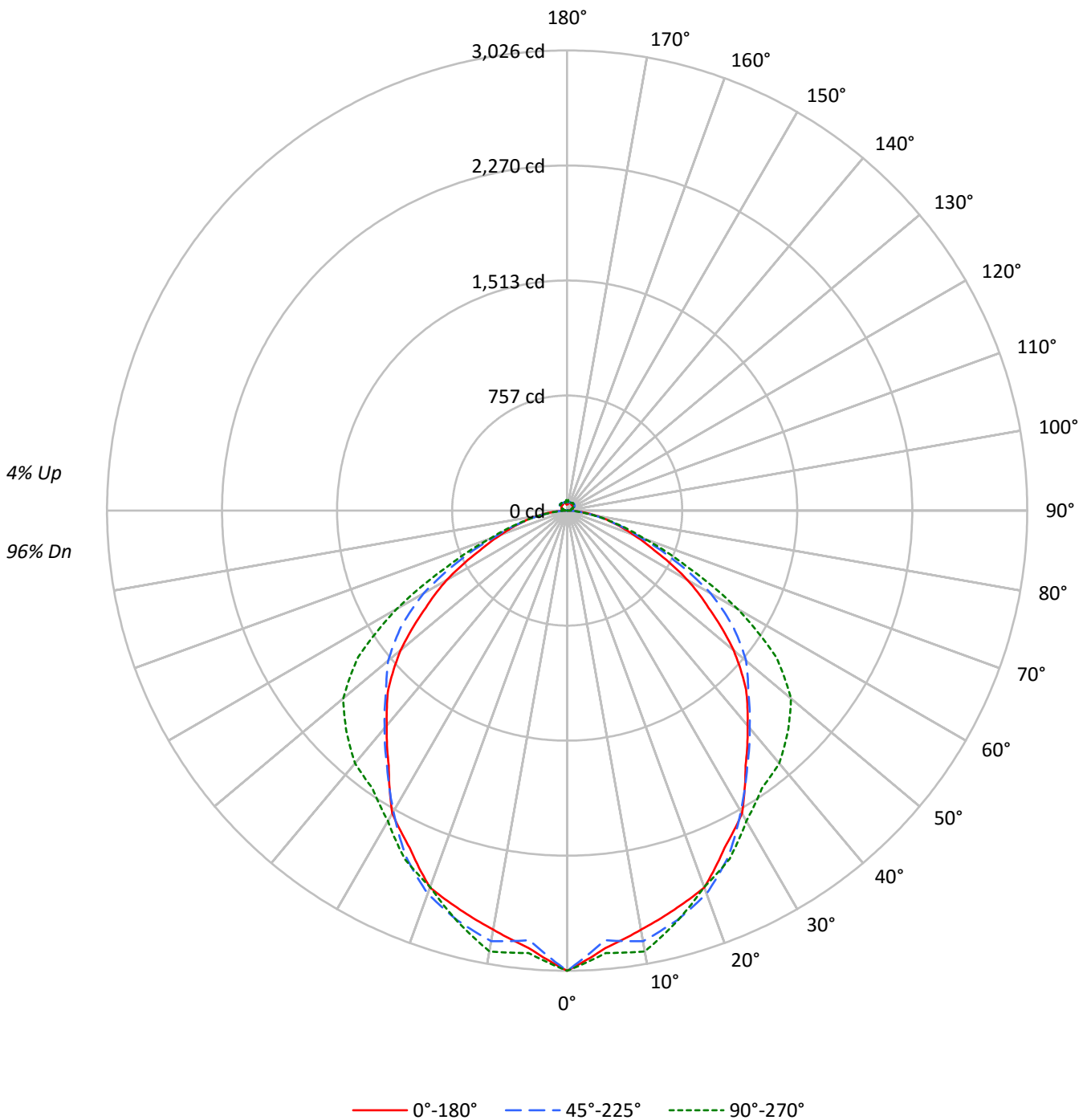
Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 7614.1 lumens
Efficiency: 76.1%
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.17 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Direct

Input Watts (W): 118
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	50	30	10	0	
RCR																						
0	90	90	90	90	88	88	88	88	83	83	83	79	79	79	75	75	75	73				
1	83	79	76	74	80	77	75	72	74	72	69	70	69	67	67	66	64	63				
2	76	70	65	61	73	68	64	60	65	61	58	62	59	56	59	57	55	53				
3	69	62	56	51	67	60	55	50	58	53	49	55	51	48	53	50	47	45				
4	64	55	48	43	62	54	48	43	51	46	42	49	45	41	47	44	40	39				
5	58	49	42	38	57	48	42	37	46	41	37	44	40	36	43	39	35	34				
6	54	44	38	33	52	43	37	33	42	36	32	40	35	32	39	35	31	30				
7	50	40	34	29	49	39	33	29	38	33	29	37	32	28	35	31	28	26				
8	47	37	30	26	45	36	30	26	35	29	26	34	29	25	33	28	25	24				
9	44	34	28	23	42	33	27	23	32	27	23	31	26	23	30	26	23	21				
10	41	31	25	21	40	31	25	21	30	25	21	29	24	21	28	24	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10857	10857	10857
5°	10347	9980	10232
10°	10088	10003	10152
15°	9935	9667	9566
20°	9858	9326	9013
25°	9428	8831	8709
30°	9210	8196	8247
35°	8599	7610	7987
40°	8234	7142	8014
45°	7968	6738	7895
50°	7448	6497	7771
55°	6646	6028	7210
60°	5949	5336	5977
65°	4885	4220	4364
70°	4158	3055	3005
75°	3561	2216	2112
80°	2983	1457	1290
85°	2048	662	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	278.5	3.7	2.8
10°-20°	786.1	10.3	7.9
20°-30°	1150.7	15.1	11.5
30°-40°	1327.8	17.4	13.3
40°-50°	1370.3	18.0	13.7
50°-60°	1212.3	15.9	12.1
60°-70°	776.5	10.2	7.8
70°-80°	351.7	4.6	3.5
80°-90°	88.0	1.2	0.9
90°-100°	15.2	0.2	0.2
100°-110°	33.6	0.4	0.3
110°-120°	45.4	0.6	0.5
120°-130°	49.2	0.6	0.5
130°-140°	45.5	0.6	0.5
140°-150°	36.3	0.5	0.4
150°-160°	26.1	0.3	0.3
160°-170°	15.7	0.2	0.2
170°-180°	5.4	0.1	0.1
0°-30°	2215.3	29.1	22.2
0°-40°	3543.0	46.5	35.4
0°-60°	6125.6	80.5	61.3
0°-90°	7341.7	96.4	73.4
90°-120°	94.2	1.2	0.9
90°-150°	225.2	3.0	2.3
90°-180°	272.0	3.6	2.7
0°-180°	7614.1	100.0	76.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3026	3026	3026	3026	3026	
5°	2888	2934	2836	2988	2920	274
15°	2717	2787	2789	2823	2796	769
25°	2448	2522	2510	2495	2528	1134
35°	2046	2107	2064	2140	2231	1289
45°	1664	1636	1684	1907	2053	1275
55°	1153	1147	1333	1566	1678	1040
65°	649	696	783	852	866	662
75°	314	320	320	319	334	339
85°	84	77	65	60	58	93
90°	10	6	2	1	1	18
95°	29	20	11	6	5	22
105°	37	38	30	27	24	38
115°	40	46	49	48	43	39
125°	45	48	60	59	54	41
135°	46	51	63	68	58	37
145°	48	55	59	61	63	31
155°	52	53	56	57	57	24
165°	54	54	60	51	54	15
175°	41	53	60	63	69	5
180°	57	57	57	57	57	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3026.0	3026.0	3026.0	3026.0	3026.0
5°	2887.8	2934.5	2836.0	2988.3	2920.3
10°	2798.2	2811.4	2875.3	2981.8	2943.3
15°	2717.4	2787.0	2789.4	2823.3	2795.5
20°	2638.2	2710.4	2680.8	2632.1	2634.8
25°	2447.9	2522.4	2509.6	2495.0	2527.5
30°	2299.8	2304.8	2284.5	2303.2	2357.7
35°	2045.5	2107.4	2063.6	2139.8	2231.3
40°	1846.4	1881.7	1867.8	2030.1	2169.4
45°	1664.3	1636.0	1683.9	1907.0	2052.8
50°	1429.6	1418.7	1536.0	1780.9	1922.1
55°	1153.3	1147.3	1332.7	1565.8	1678.2
60°	915.0	929.2	1088.9	1225.9	1293.6
65°	649.3	696.3	782.9	852.0	866.1
70°	461.6	489.9	505.7	541.5	537.8
75°	314.3	319.5	319.8	319.0	333.9
80°	193.4	193.6	177.7	177.2	175.5
85°	83.8	76.7	65.4	60.0	58.0
90°	10.1	5.5	1.7	1.4	0.8
95°	28.8	20.3	11.1	5.7	5.1
100°	34.9	32.4	25.0	17.6	16.3
105°	37.3	38.4	29.9	26.6	24.5
110°	33.7	44.6	38.2	39.8	33.8
115°	39.7	46.1	49.3	47.6	42.6
120°	43.9	53.4	53.9	55.2	48.9
125°	44.7	48.0	59.9	59.4	53.9
130°	51.3	54.4	61.0	63.8	62.8
135°	46.4	51.3	62.9	68.3	57.5
140°	49.5	53.0	62.9	62.5	61.5
145°	48.0	54.8	58.9	61.0	62.6
150°	53.0	53.2	57.9	64.2	58.8
155°	52.4	52.9	56.2	57.0	56.9
160°	52.2	58.0	58.8	54.1	61.2
165°	53.7	53.6	59.5	50.7	54.3
170°	55.5	56.2	52.6	57.9	52.6
175°	41.0	53.4	59.9	62.7	68.9
180°	56.8	56.8	56.8	56.8	56.8

(END OF REPORT)