

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: CTL58850

Luminaire Tested: **NB-SW-3T5-DL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58850
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-DL3
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

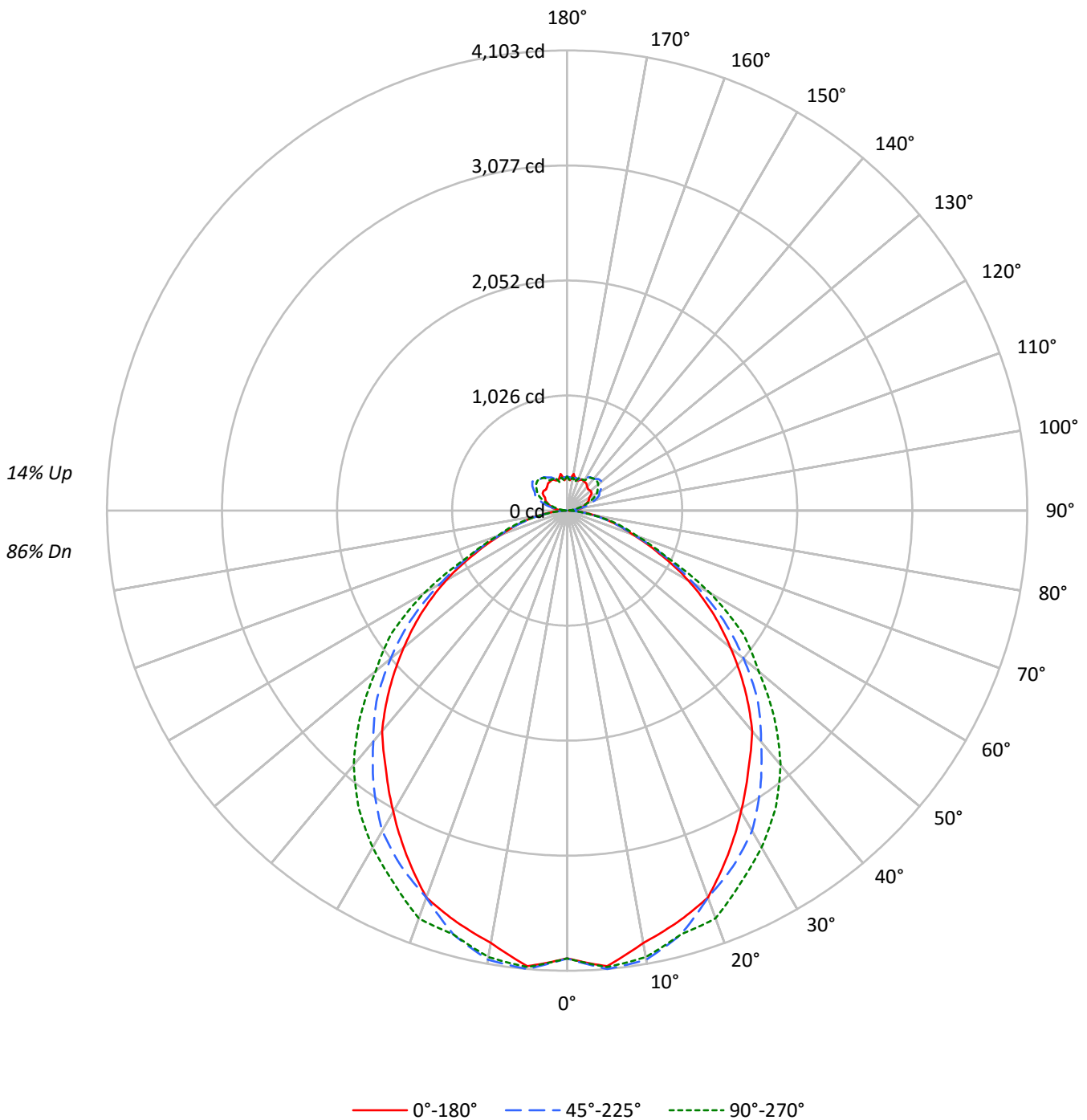
Lumens per Lamp: 5000 (3 lamps)
Luminaire Lumens: 11490.3 lumens
Efficiency: 76.6%
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.28 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4.04' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 177
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					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	89	89	89	89	85	85	85	85	79	79	79	74	74	74	69	69	69	66				
1	82	78	75	73	79	76	73	71	70	68	66	66	64	63	61	60	59	57				
2	75	69	64	60	72	67	62	59	62	59	56	58	55	53	55	52	50	48				
3	68	61	55	51	66	59	54	49	55	51	47	52	48	45	49	46	43	41				
4	63	54	48	43	60	53	47	42	49	45	41	46	42	39	44	40	38	36				
5	58	49	42	37	56	47	41	37	44	39	35	42	38	34	40	36	33	31				
6	54	44	37	33	51	43	37	32	40	35	31	38	34	30	36	32	29	27				
7	50	40	34	29	48	39	33	29	37	32	28	35	30	27	33	29	26	24				
8	46	36	30	26	45	35	30	26	34	29	25	32	27	24	30	26	23	22				
9	43	33	27	23	42	33	27	23	31	26	22	29	25	22	28	24	21	20				
10	41	31	25	21	39	30	25	21	29	24	20	27	23	20	26	22	19	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14175	14175	14175
5°	14458	14290	14165
10°	13965	13997	13795
15°	13749	13424	13251
20°	13578	12640	13097
25°	12920	12192	12485
30°	12295	11709	12002
35°	11719	10973	11476
40°	11331	10182	10823
45°	10601	9530	9943
50°	9812	8606	8919
55°	9021	7616	8137
60°	8036	6354	6728
65°	6734	5064	4848
70°	5519	3798	3667
75°	4806	2867	2908
80°	3925	1941	1717
85°	2830	907	699



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	385.5	3.4	2.6
10°-20°	1099.5	9.6	7.3
20°-30°	1622.7	14.1	10.8
30°-40°	1889.1	16.4	12.6
40°-50°	1858.8	16.2	12.4
50°-60°	1527.2	13.3	10.2
60°-70°	960.0	8.4	6.4
70°-80°	461.3	4.0	3.1
80°-90°	119.7	1.0	0.8
90°-100°	52.9	0.5	0.4
100°-110°	184.6	1.6	1.2
110°-120°	275.7	2.4	1.8
120°-130°	303.4	2.6	2.0
130°-140°	276.0	2.4	1.8
140°-150°	214.7	1.9	1.4
150°-160°	146.1	1.3	1.0
160°-170°	85.2	0.7	0.6
170°-180°	28.0	0.2	0.2
0°-30°	3107.7	27.0	20.7
0°-40°	4996.8	43.5	33.3
0°-60°	8382.7	73.0	55.9
0°-90°	9923.8	86.4	66.2
90°-120°	513.2	4.5	3.4
90°-150°	1307.2	11.4	8.7
90°-180°	1567.0	13.6	10.4
0°-180°	11490.3	100.0	76.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3993	3993	3993	3993	3993	
5°	4078	4082	4103	4008	4086	382
15°	3800	3855	3914	3980	3914	1073
25°	3389	3454	3501	3580	3662	1562
35°	2816	2917	3006	3101	3240	1769
45°	2236	2292	2406	2530	2613	1726
55°	1581	1618	1701	1788	1914	1411
65°	903	912	949	983	972	908
75°	428	419	418	426	465	457
85°	116	106	90	83	80	126
90°	15	7	2	2	2	30
95°	74	60	30	20	15	73
105°	153	212	195	162	126	164
115°	212	282	313	300	259	207
125°	268	326	378	364	332	232
135°	266	325	396	400	375	210
145°	296	326	363	360	357	184
155°	308	310	325	321	307	139
165°	284	321	303	303	264	83
175°	271	304	296	270	265	28
180°	303	303	303	303	303	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3992.6	3992.6	3992.6	3992.6	3992.6
5°	4077.7	4082.1	4103.4	4007.7	4085.6
10°	3914.1	3938.2	4065.6	4074.4	4042.0
15°	3800.0	3855.4	3914.2	3980.4	3913.6
20°	3671.1	3752.8	3671.5	3770.9	3869.2
25°	3389.2	3454.3	3500.8	3580.2	3661.6
30°	3101.5	3199.5	3297.5	3392.9	3467.3
35°	2816.1	2916.8	3006.2	3100.7	3239.7
40°	2566.4	2643.2	2690.4	2877.3	2960.8
45°	2236.5	2292.3	2406.1	2529.6	2612.6
50°	1901.9	1958.9	2055.1	2162.5	2229.4
55°	1580.6	1617.5	1700.8	1787.7	1914.0
60°	1247.8	1288.4	1309.8	1416.4	1471.6
65°	903.4	912.5	948.9	983.0	972.3
70°	618.2	645.9	634.9	671.0	663.2
75°	427.8	418.9	417.8	426.1	464.6
80°	256.5	256.7	239.0	243.0	236.0
85°	116.5	106.2	90.4	82.8	79.8
90°	15.1	6.6	2.3	2.4	1.6
95°	74.4	59.5	29.8	20.3	14.7
100°	133.4	144.4	114.9	90.7	65.2
105°	153.1	212.1	194.8	161.5	126.0
110°	181.9	245.7	258.4	240.4	193.4
115°	212.4	281.9	313.4	300.0	258.6
120°	226.8	314.3	333.8	341.8	306.4
125°	267.5	326.4	378.4	364.3	332.4
130°	273.8	310.6	403.8	389.0	361.9
135°	266.2	324.8	396.2	399.9	375.4
140°	276.9	319.0	368.1	385.8	371.8
145°	296.4	325.9	363.4	359.5	357.3
150°	300.6	313.0	339.5	354.8	311.8
155°	307.6	310.4	325.3	320.6	307.2
160°	284.5	312.8	293.8	295.0	310.1
165°	284.3	321.0	302.8	302.8	264.3
170°	332.1	326.1	289.6	276.5	299.0
175°	271.2	304.0	296.5	270.1	265.1
180°	302.9	302.9	302.9	302.9	302.9

(END OF REPORT)