

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: CTL58839

Luminaire Tested: **NB-SW-2T5-DL7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58839
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-2T5-DL7
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

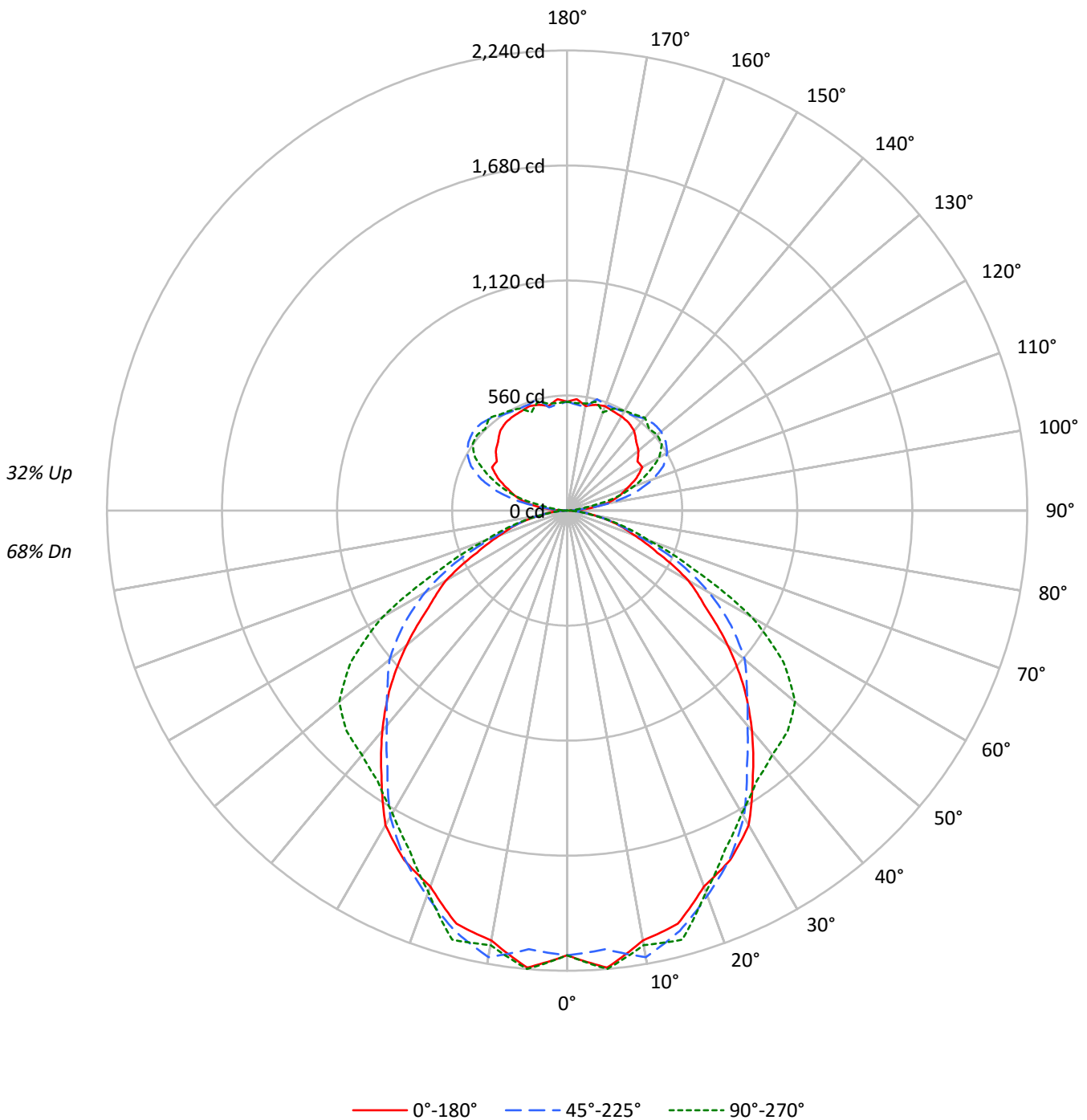
Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 8079.1 lumens
Efficiency: 80.8%
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 118
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	0
RCR																				
0	90	90	90	90	85	85	85	85	75	75	75		67	67	67		59	59	59	55
1	83	79	76	73	78	75	72	69	67	65	63		59	58	56		52	51	50	47
2	75	69	64	60	71	66	61	57	59	55	52		52	50	47		46	44	42	39
3	69	61	55	50	65	58	52	48	52	48	44		46	43	40		41	39	36	34
4	63	54	48	43	59	51	46	41	46	41	38		41	38	34		37	34	31	29
5	58	48	42	37	54	46	40	35	41	36	33		37	33	30		33	30	27	25
6	53	43	37	32	50	41	35	31	37	32	29		34	30	26		30	27	24	22
7	50	39	33	28	47	38	31	27	34	29	25		31	26	23		28	24	22	20
8	46	36	29	25	43	34	28	24	31	26	23		28	24	21		25	22	19	18
9	43	33	27	22	41	31	26	22	29	24	20		26	22	19		23	20	17	16
10	40	30	24	20	38	29	23	20	26	22	18		24	20	17		22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7767	7767	7767
5°	8001	7543	7848
10°	7662	7680	7408
15°	7613	7339	7401
20°	7275	6941	6758
25°	7229	6587	6270
30°	7082	6174	5950
35°	6625	5625	5755
40°	6241	5216	5737
45°	5833	4948	5837
50°	5313	4775	5856
55°	4743	4403	5521
60°	4428	3919	4804
65°	3643	3236	3456
70°	3098	2291	2364
75°	2765	1709	1681
80°	2058	1125	939
85°	1628	528	400



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	208.6	2.6	2.1
10°-20°	593.3	7.3	5.9
20°-30°	859.2	10.6	8.6
30°-40°	983.6	12.2	9.8
40°-50°	1007.6	12.5	10.1
50°-60°	900.5	11.1	9.0
60°-70°	594.5	7.4	5.9
70°-80°	269.8	3.3	2.7
80°-90°	67.0	0.8	0.7
90°-100°	86.5	1.1	0.9
100°-110°	316.9	3.9	3.2
110°-120°	462.9	5.7	4.6
120°-130°	489.0	6.1	4.9
130°-140°	436.7	5.4	4.4
140°-150°	349.6	4.3	3.5
150°-160°	251.4	3.1	2.5
160°-170°	152.3	1.9	1.5
170°-180°	49.5	0.6	0.5
0°-30°	1661.1	20.6	16.6
0°-40°	2644.7	32.7	26.4
0°-60°	4552.9	56.4	45.5
0°-90°	5484.2	67.9	54.8
90°-120°	866.3	10.7	8.7
90°-150°	2141.7	26.5	21.4
90°-180°	2595.0	32.1	26.0
0°-180°	8079.1	100.0	80.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2165	2165	2165	2165	2165	
5°	2233	2155	2143	2256	2240	208
15°	2082	2093	2118	2147	2163	582
25°	1877	1914	1872	1858	1820	862
35°	1576	1624	1525	1527	1608	989
45°	1218	1235	1237	1388	1518	937
55°	823	828	973	1198	1285	748
65°	484	518	600	673	686	493
75°	244	243	247	251	266	255
85°	67	57	52	43	45	69
90°	11	7	3	2	2	25
95°	91	94	59	38	32	99
105°	255	356	343	278	245	266
115°	371	493	518	468	435	364
125°	418	539	586	570	562	383
135°	476	533	596	615	563	369
145°	522	543	564	583	570	326
155°	532	545	548	547	548	247
165°	533	528	561	558	549	151
175°	544	507	518	516	525	51
180°	530	530	530	530	530	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2164.8	2164.8	2164.8	2164.8	2164.8
5°	2233.2	2155.2	2143.4	2255.5	2240.0
10°	2125.1	2132.7	2207.5	2223.1	2147.7
15°	2082.5	2092.7	2117.7	2146.7	2162.9
20°	1946.9	1997.6	1995.4	1999.1	1975.6
25°	1876.9	1914.4	1871.9	1858.2	1819.7
30°	1768.4	1762.0	1721.0	1646.0	1701.0
35°	1576.0	1623.8	1525.3	1527.3	1607.6
40°	1399.5	1434.8	1364.3	1447.8	1553.1
45°	1218.4	1234.7	1236.7	1387.9	1517.8
50°	1019.8	1015.5	1128.8	1306.1	1448.3
55°	823.0	827.9	973.3	1197.8	1285.0
60°	681.1	665.0	799.8	986.4	1039.7
65°	484.2	518.1	600.4	673.4	685.9
70°	343.9	361.9	379.3	428.3	423.0
75°	244.0	242.6	246.7	251.0	265.7
80°	133.4	144.8	137.3	136.7	127.8
85°	66.6	56.6	52.1	43.2	45.2
90°	10.9	7.0	3.1	2.4	2.3
95°	90.7	93.9	59.4	38.4	32.0
100°	191.9	230.3	212.3	159.7	96.3
105°	254.9	356.4	342.9	277.8	245.4
110°	305.8	442.5	443.7	389.7	346.2
115°	370.8	493.0	517.8	468.3	435.0
120°	422.1	529.7	562.0	544.1	517.5
125°	417.9	538.8	585.5	570.2	562.3
130°	452.8	538.7	597.7	601.2	572.9
135°	475.5	532.6	596.5	615.3	563.2
140°	506.6	525.2	584.9	586.7	589.7
145°	522.1	543.0	563.5	583.3	570.4
150°	528.9	526.0	553.6	559.6	560.6
155°	532.1	544.7	548.0	546.8	548.1
160°	540.6	528.4	548.6	542.3	508.5
165°	533.0	528.0	561.1	557.8	548.6
170°	516.5	520.0	510.2	508.6	528.5
175°	544.0	506.9	518.2	516.3	524.9
180°	529.5	529.5	529.5	529.5	529.5

(END OF REPORT)