

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: CTL58851

Luminaire Tested: **NB-SW-3T5-DL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58851
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-DL4
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

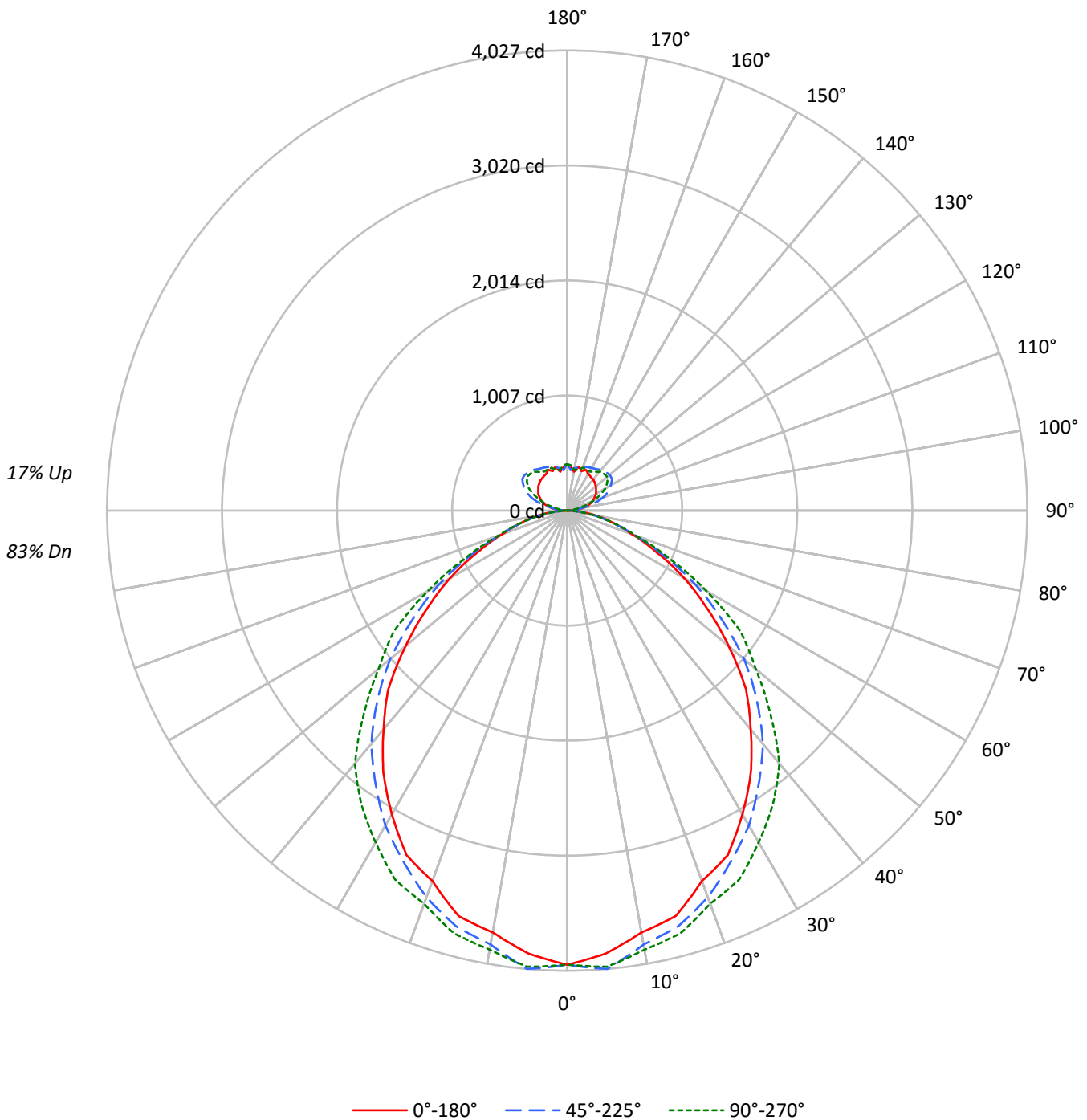
Lumens per Lamp: 5000 (3 lamps)
Luminaire Lumens: 11570.5 lumens
Efficiency: 77.1%
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.25 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 177
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	89	89	89	89	85	85	85	85	78	78	78	72	72	72	67	67	67	64				
1	82	78	75	73	78	75	73	70	70	68	66	65	63	61	60	59	57	55				
2	75	69	64	60	72	66	62	58	62	58	55	57	54	52	53	51	49	47				
3	68	61	55	51	65	59	53	49	55	50	47	51	47	44	47	45	42	40				
4	63	54	48	43	60	52	47	42	49	44	40	46	42	38	43	39	37	35				
5	58	49	42	37	55	47	41	37	44	39	35	41	37	33	38	35	32	30				
6	53	44	37	33	51	42	36	32	40	35	31	37	33	30	35	31	28	27				
7	50	40	33	29	48	39	33	28	36	31	27	34	30	26	32	28	25	24				
8	46	36	30	26	44	35	29	25	33	28	24	31	27	24	29	26	23	21				
9	43	33	27	23	41	32	27	23	31	26	22	29	24	21	27	23	21	19				
10	40	31	25	21	39	30	24	21	28	23	20	27	22	19	25	21	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14260	14260	14260
5°	13942	14172	14040
10°	13514	13412	13456
15°	13428	13047	13104
20°	12888	12523	12522
25°	12810	11927	12276
30°	12285	11413	11728
35°	11783	10776	11237
40°	11147	10190	10674
45°	10599	9396	9676
50°	9613	8543	8703
55°	8624	7425	7976
60°	7686	6355	6506
65°	6515	5025	4937
70°	5434	3792	3543
75°	4689	2774	2636
80°	4071	1941	1756
85°	2659	859	644



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	373.9	3.2	2.5
10°-20°	1056.7	9.1	7.0
20°-30°	1569.2	13.6	10.5
30°-40°	1842.6	15.9	12.3
40°-50°	1811.0	15.7	12.1
50°-60°	1470.7	12.7	9.8
60°-70°	934.8	8.1	6.2
70°-80°	445.7	3.9	3.0
80°-90°	114.8	1.0	0.8
90°-100°	63.0	0.5	0.4
100°-110°	230.7	2.0	1.5
110°-120°	348.1	3.0	2.3
120°-130°	377.8	3.3	2.5
130°-140°	340.4	2.9	2.3
140°-150°	262.6	2.3	1.8
150°-160°	184.4	1.6	1.2
160°-170°	108.9	0.9	0.7
170°-180°	35.4	0.3	0.2
0°-30°	2999.8	25.9	20.0
0°-40°	4842.4	41.9	32.3
0°-60°	8124.1	70.2	54.2
0°-90°	9619.4	83.1	64.1
90°-120°	641.8	5.5	4.3
90°-150°	1622.5	14.0	10.8
90°-180°	1951.0	16.9	13.0
0°-180°	11570.5	100.0	77.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3974	3974	3974	3974	3974	
5°	3891	3915	4027	3882	4007	367
15°	3673	3698	3765	3820	3830	1027
25°	3326	3339	3390	3456	3563	1520
35°	2803	2880	2922	3013	3139	1749
45°	2214	2274	2348	2455	2516	1693
55°	1496	1525	1642	1740	1857	1346
65°	866	887	932	975	980	870
75°	414	413	400	415	417	447
85°	109	99	85	78	73	125
90°	14	8	3	3	2	31
95°	86	71	39	24	22	80
105°	198	265	245	202	157	205
115°	262	366	398	371	312	261
125°	309	392	479	453	428	278
135°	343	401	475	485	455	265
145°	360	379	443	458	411	227
155°	392	385	420	405	398	176
165°	397	377	393	390	367	107
175°	381	331	355	359	397	35
180°	406	406	406	406	406	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3974.4	3974.4	3974.4	3974.4	3974.4
5°	3891.2	3915.4	4027.1	3882.1	4007.2
10°	3748.4	3815.3	3855.4	3955.6	3901.3
15°	3672.9	3698.1	3764.8	3820.1	3829.6
20°	3448.9	3553.0	3599.9	3603.5	3660.6
25°	3326.0	3339.4	3389.5	3456.5	3562.7
30°	3067.7	3144.3	3181.2	3277.4	3352.8
35°	2802.9	2880.4	2922.0	3013.2	3139.0
40°	2499.6	2569.0	2665.2	2747.4	2889.6
45°	2213.8	2273.7	2348.2	2455.1	2515.8
50°	1845.0	1877.2	2019.5	2077.2	2152.4
55°	1496.5	1525.1	1641.6	1740.3	1856.6
60°	1182.2	1212.4	1297.0	1370.7	1408.0
65°	865.9	887.2	932.2	975.0	979.8
70°	603.2	607.7	627.8	658.1	634.0
75°	413.8	412.6	400.4	415.3	416.7
80°	263.9	243.2	236.8	228.1	238.9
85°	108.8	99.3	84.8	78.1	72.7
90°	14.2	7.9	3.4	2.7	1.5
95°	86.4	70.9	39.2	23.6	21.9
100°	144.6	174.6	138.6	108.9	67.9
105°	198.0	265.3	245.4	202.2	156.9
110°	236.7	318.3	332.0	301.1	235.6
115°	261.9	365.8	397.8	370.9	312.1
120°	291.9	375.8	440.8	433.9	384.6
125°	308.9	392.0	479.3	452.6	427.8
130°	328.8	401.3	486.3	488.0	458.3
135°	343.2	401.2	475.4	484.9	455.3
140°	355.9	387.4	463.7	488.5	444.5
145°	360.5	378.6	442.9	458.4	411.2
150°	368.8	383.2	430.1	413.1	394.7
155°	391.9	385.2	419.8	404.7	397.9
160°	367.3	374.7	401.6	392.9	398.5
165°	397.2	376.6	393.3	390.5	366.8
170°	345.1	372.9	375.8	397.4	359.7
175°	381.0	330.9	354.8	358.6	397.2
180°	405.7	405.7	405.7	405.7	405.7

(END OF REPORT)