

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: CTL58848

Luminaire Tested: **NB-SW-3T5-DL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58848
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-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

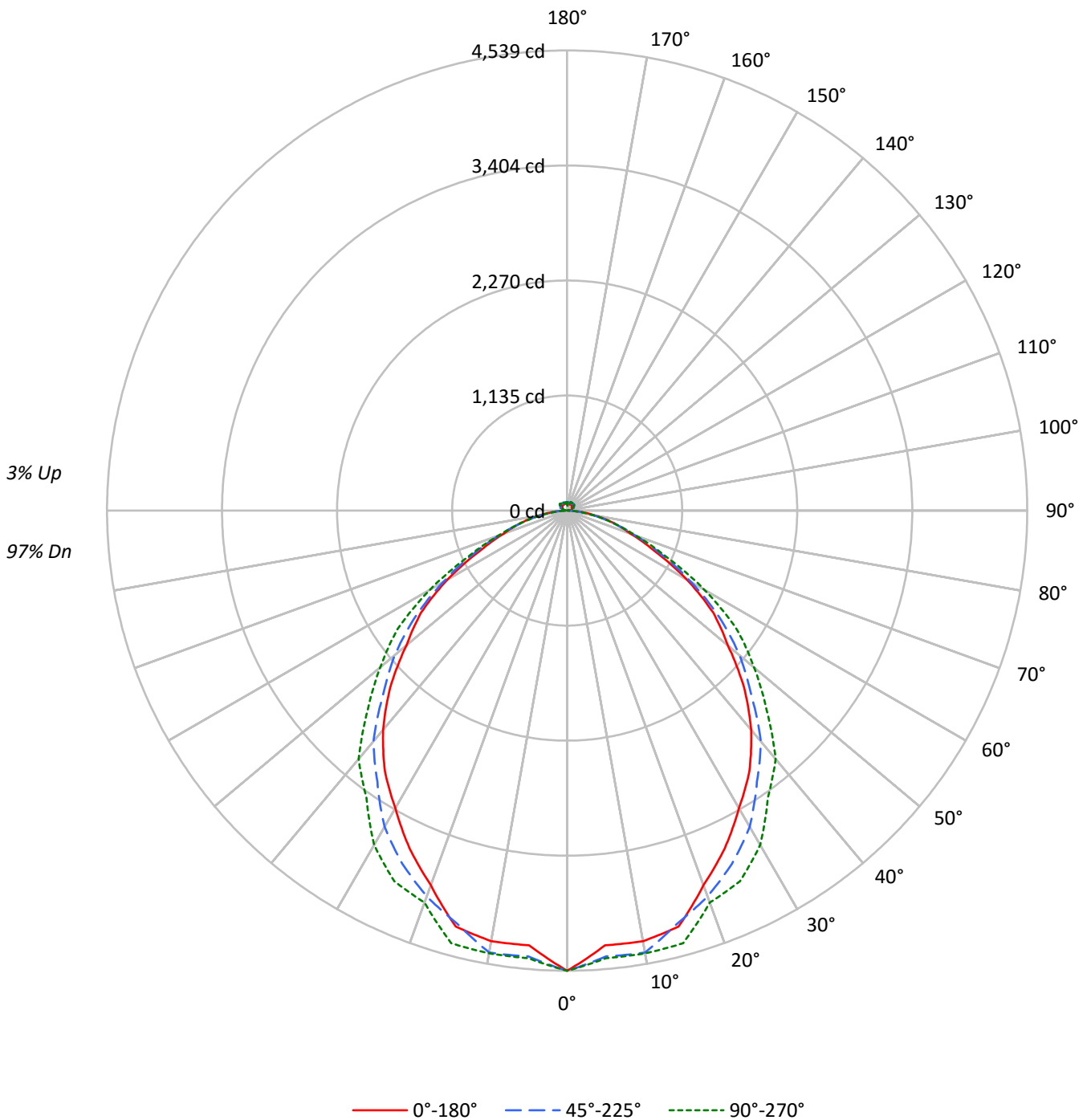
Lumens per Lamp: 5000 (3 lamps)
Luminaire Lumens: 11181.1 lumens
Efficiency: 74.5%
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.24 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Direct

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	88	88	88	88	86	86	86	86	81	81	81	77	77	77	74	74	74	72				
1	81	78	75	72	79	76	73	71	72	70	68	69	67	66	66	65	63	62				
2	74	69	64	60	72	67	63	59	64	60	57	61	58	56	59	56	54	52				
3	68	61	55	51	66	59	54	50	57	52	49	55	51	48	52	49	47	45				
4	63	54	48	43	61	53	47	43	51	46	42	49	45	41	47	43	40	39				
5	58	49	42	38	56	48	42	37	46	41	37	44	40	36	43	39	35	34				
6	53	44	38	33	52	43	37	33	42	36	32	40	35	32	39	35	31	30				
7	50	40	34	29	48	39	33	29	38	33	29	37	32	28	35	31	28	27				
8	46	37	30	26	45	36	30	26	35	30	26	34	29	26	33	28	25	24				
9	43	34	28	24	42	33	27	24	32	27	23	31	26	23	30	26	23	22				
10	41	31	25	22	40	31	25	21	30	25	21	29	24	21	28	24	21	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16287	16287	16287
5°	15420	15535	15526
10°	15547	15396	15295
15°	15529	14600	15118
20°	14696	14090	14073
25°	14163	13528	13900
30°	13577	12924	13319
35°	13181	12040	12360
40°	12597	11368	11819
45°	11810	10269	10705
50°	10785	9386	9731
55°	10146	8280	8786
60°	8868	6937	7227
65°	7219	5541	5419
70°	5993	4283	4009
75°	5382	3168	2911
80°	4265	2141	1903
85°	3006	1000	730



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	424.4	3.8	2.8
10°-20°	1195.8	10.7	8.0
20°-30°	1775.2	15.9	11.8
30°-40°	2057.2	18.4	13.7
40°-50°	2016.4	18.0	13.4
50°-60°	1654.7	14.8	11.0
60°-70°	1038.0	9.3	6.9
70°-80°	499.9	4.5	3.3
80°-90°	128.8	1.2	0.9
90°-100°	20.2	0.2	0.1
100°-110°	48.5	0.4	0.3
110°-120°	66.0	0.6	0.4
120°-130°	70.2	0.6	0.5
130°-140°	66.7	0.6	0.4
140°-150°	53.4	0.5	0.4
150°-160°	36.7	0.3	0.2
160°-170°	21.6	0.2	0.1
170°-180°	7.4	0.1	0.0
0°-30°	3395.4	30.4	22.6
0°-40°	5452.6	48.8	36.4
0°-60°	9123.6	81.6	60.8
0°-90°	10790.4	96.5	71.9
90°-120°	134.7	1.2	0.9
90°-150°	325.0	2.9	2.2
90°-180°	391.0	3.5	2.6
0°-180°	11181.1	100.0	74.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4539	4539	4539	4539	4539	
5°	4304	4525	4414	4548	4431	414
15°	4248	4158	4213	4276	4418	1182
25°	3678	3813	3844	3940	4034	1693
35°	3135	3188	3265	3356	3453	1955
45°	2467	2528	2566	2754	2783	1896
55°	1761	1761	1831	1950	2045	1555
65°	960	985	1028	1061	1075	976
75°	475	468	457	456	460	499
85°	123	112	99	92	82	135
90°	16	6	3	1	0	28
95°	46	29	12	7	5	32
105°	50	56	44	41	35	54
115°	55	63	73	70	67	56
125°	54	72	85	84	78	52
135°	70	79	93	95	98	53
145°	70	81	89	96	91	44
155°	68	69	81	93	93	31
165°	79	74	78	75	79	22
175°	74	74	80	82	48	7
180°	83	83	83	83	83	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4539.3	4539.3	4539.3	4539.3	4539.3
5°	4303.7	4524.9	4414.4	4547.5	4431.1
10°	4312.4	4362.7	4425.7	4402.2	4434.4
15°	4247.7	4158.2	4212.8	4275.5	4418.2
20°	3932.7	4015.2	4050.3	4107.4	4114.0
25°	3677.5	3813.1	3844.5	3939.5	4034.0
30°	3390.4	3522.3	3602.4	3704.2	3807.6
35°	3135.4	3188.3	3264.8	3356.5	3452.8
40°	2824.6	2837.7	2973.1	3093.5	3199.6
45°	2466.8	2527.6	2566.4	2754.3	2783.4
50°	2070.1	2145.3	2218.8	2323.4	2406.7
55°	1760.7	1760.8	1830.6	1949.8	2045.0
60°	1364.0	1393.7	1415.7	1518.0	1564.2
65°	959.5	984.6	1028.0	1060.6	1075.4
70°	665.2	702.0	709.0	717.5	717.5
75°	475.0	467.5	457.2	456.1	460.2
80°	276.5	270.0	261.2	264.9	258.9
85°	123.0	112.5	98.7	91.6	82.4
90°	16.3	5.5	3.2	1.3	0.5
95°	45.5	28.8	11.6	7.0	4.9
100°	48.5	48.2	32.3	20.7	15.5
105°	50.0	55.5	44.4	41.1	35.1
110°	55.8	65.0	57.1	58.3	50.8
115°	55.3	62.6	72.8	69.6	66.6
120°	59.8	70.1	77.1	86.4	73.5
125°	53.5	72.1	84.8	84.4	78.2
130°	65.2	74.4	89.4	93.3	97.9
135°	69.8	78.8	92.8	94.8	97.7
140°	71.8	79.1	85.0	96.2	86.9
145°	70.3	81.4	89.2	96.1	91.2
150°	67.8	77.9	78.9	90.7	86.3
155°	67.7	68.6	80.7	93.2	92.6
160°	69.1	74.2	76.2	73.1	77.7
165°	79.3	73.7	77.9	75.3	78.7
170°	79.7	76.0	86.1	76.0	73.7
175°	74.2	74.4	79.7	81.7	47.7
180°	83.3	83.3	83.3	83.3	83.3

(END OF REPORT)