

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: CTL58868

Luminaire Tested: **NB-SW-3T5-XDX-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58868
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-XDX-1
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & LAMP ISOLATORS

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

Summary

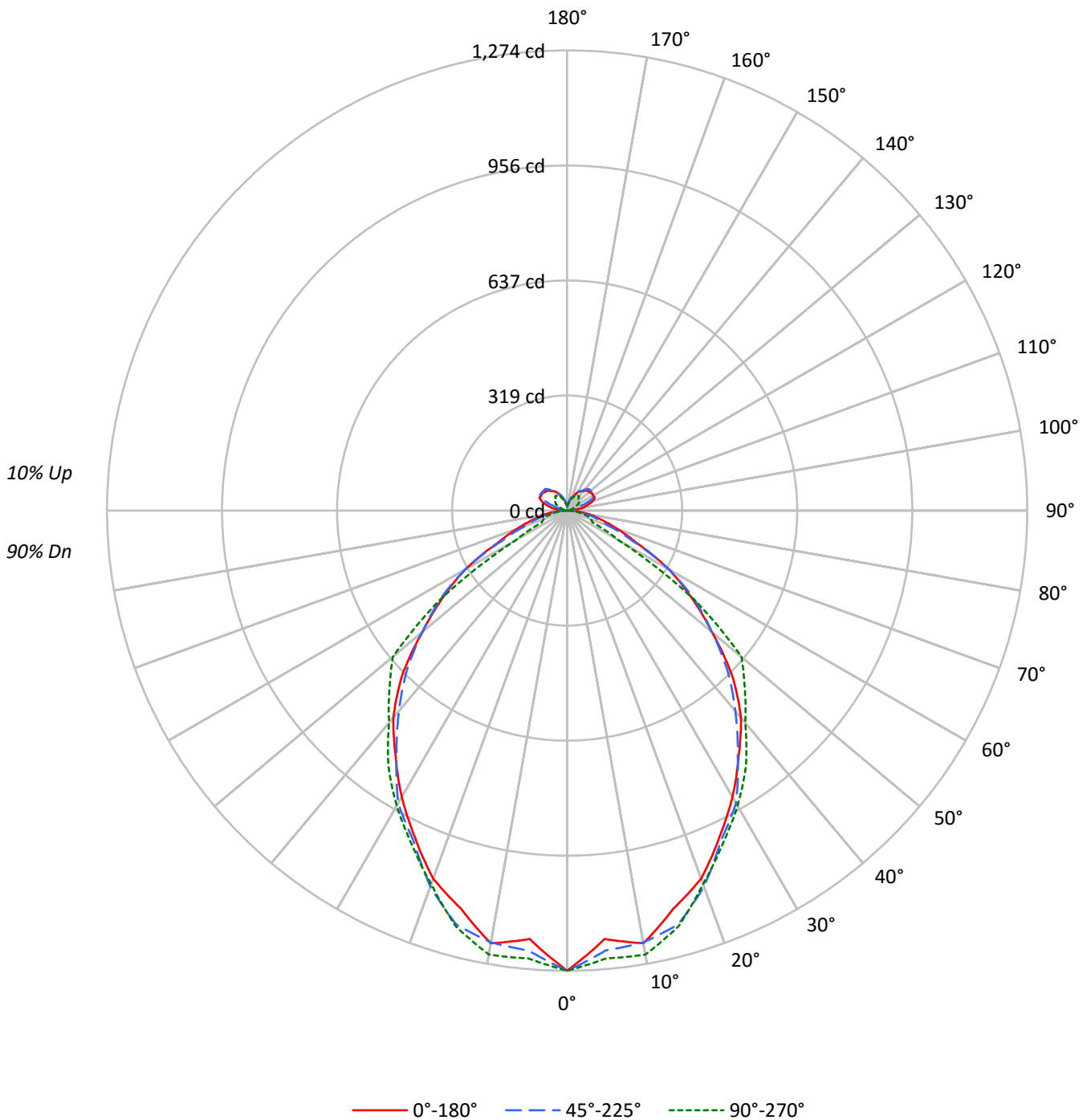
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 2915.0 lumens
Efficiency: 58.3%
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.12 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 59
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	68	68	68	68	66	66	66	66	61	61	61	58	58	58	54	54	54	52
1	63	61	58	56	61	59	57	55	55	54	52	52	51	50	49	48	47	46
2	58	54	50	47	56	52	49	46	49	47	44	46	44	43	44	42	41	39
3	53	48	44	40	51	47	43	40	44	41	38	42	39	37	39	37	35	34
4	49	43	38	35	47	42	38	34	40	36	33	38	35	32	36	33	31	30
5	45	39	34	30	44	38	33	30	36	32	29	34	31	28	32	30	28	26
6	42	35	30	27	41	34	30	27	33	29	26	31	28	25	30	27	25	23
7	39	32	27	24	38	31	27	24	30	26	23	28	25	23	27	24	22	21
8	37	29	25	22	35	29	24	21	27	24	21	26	23	20	25	22	20	19
9	34	27	22	19	33	26	22	19	25	22	19	24	21	18	23	20	18	17
10	32	25	21	18	31	24	20	18	23	20	17	23	19	17	22	19	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4570	4570	4570
5°	4266	4302	4360
10°	4386	4223	4305
15°	4167	4113	4077
20°	4053	3853	3764
25°	3843	3545	3510
30°	3666	3356	3301
35°	3482	3036	3090
40°	3340	2770	2834
45°	3096	2513	2674
50°	2725	2214	2546
55°	2419	1946	1836
60°	2110	1595	768
65°	1598	1086	390
70°	1315	722	389
75°	1101	581	369
80°	1009	411	268
85°	670	197	128



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	117.1	4.0	2.3
10°-20°	328.8	11.3	6.6
20°-30°	469.7	16.1	9.4
30°-40°	523.8	18.0	10.5
40°-50°	500.0	17.2	10.0
50°-60°	378.5	13.0	7.6
60°-70°	181.2	6.2	3.6
70°-80°	87.1	3.0	1.7
80°-90°	25.5	0.9	0.5
90°-100°	8.9	0.3	0.2
100°-110°	35.4	1.2	0.7
110°-120°	64.1	2.2	1.3
120°-130°	67.1	2.3	1.3
130°-140°	56.4	1.9	1.1
140°-150°	39.4	1.4	0.8
150°-160°	21.8	0.7	0.4
160°-170°	8.6	0.3	0.2
170°-180°	1.5	0.1	0.0
0°-30°	915.6	31.4	18.3
0°-40°	1439.4	49.4	28.8
0°-60°	2317.9	79.5	46.4
0°-90°	2611.8	89.6	52.2
90°-120°	108.4	3.7	2.2
90°-150°	271.2	9.3	5.4
90°-180°	303.0	10.4	6.1
0°-180°	2915.0	100.0	58.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1191	1234	1223	1224	1244	116
15°	1140	1164	1187	1162	1191	323
25°	998	1035	1007	1025	1019	461
35°	828	820	823	852	863	520
45°	647	628	628	667	695	495
55°	420	428	430	449	427	377
65°	212	220	202	109	77	221
75°	97	98	84	66	58	107
85°	27	26	20	16	14	31
90°	4	2	0	0	0	7
95°	19	9	4	3	3	22
105°	58	63	19	14	11	61
115°	85	98	77	38	25	81
125°	84	93	86	58	40	74
135°	79	82	85	64	43	60
145°	66	63	65	66	50	41
155°	47	49	50	43	42	22
165°	30	30	32	31	25	9
175°	14	16	8	11	16	2
180°	16	16	16	16	16	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1273.8	1273.8	1273.8	1273.8	1273.8
5°	1190.6	1233.7	1222.6	1224.0	1244.5
10°	1216.5	1200.8	1213.9	1212.4	1248.2
15°	1139.9	1164.5	1186.7	1161.6	1191.4
20°	1084.5	1113.5	1107.5	1100.0	1100.4
25°	997.9	1035.4	1007.4	1024.6	1018.7
30°	915.5	925.6	935.3	944.4	943.7
35°	828.3	820.3	823.4	851.7	863.2
40°	749.0	735.8	724.4	752.1	767.2
45°	646.6	628.5	628.0	667.3	695.2
50°	523.1	524.9	523.4	579.9	629.6
55°	419.8	427.6	430.3	449.2	427.4
60°	324.5	311.9	325.4	235.5	166.3
65°	212.4	220.3	201.5	108.8	77.4
70°	146.0	152.3	119.6	85.3	69.6
75°	97.2	97.6	83.9	66.4	58.4
80°	65.4	60.6	50.1	43.0	36.4
85°	27.4	25.8	19.5	16.5	14.5
90°	3.8	1.5	0.5	0.4	0.5
95°	18.9	8.8	3.8	3.4	3.0
100°	42.2	29.6	10.6	7.1	7.0
105°	57.9	62.8	18.6	13.6	11.2
110°	74.9	88.7	48.7	21.9	17.3
115°	84.6	97.7	77.3	38.3	24.6
120°	82.9	93.9	86.5	55.0	35.6
125°	84.3	93.1	86.3	58.1	40.3
130°	79.6	93.3	85.2	63.8	41.3
135°	78.8	82.4	84.7	64.4	43.4
140°	70.0	73.5	75.5	65.8	51.8
145°	65.6	62.6	64.8	65.6	49.8
150°	59.1	57.0	60.3	51.7	48.0
155°	46.7	48.9	50.1	43.3	41.8
160°	36.9	36.2	41.7	35.7	34.7
165°	30.4	30.4	32.0	30.6	25.3
170°	22.3	22.8	22.7	18.3	19.7
175°	14.5	15.6	8.2	10.9	16.4
180°	15.7	15.7	15.7	15.7	15.7

(END OF REPORT)