

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: CTL58824

Luminaire Tested: **NB-SW-1T5-DL8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58824
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T5-DL8
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

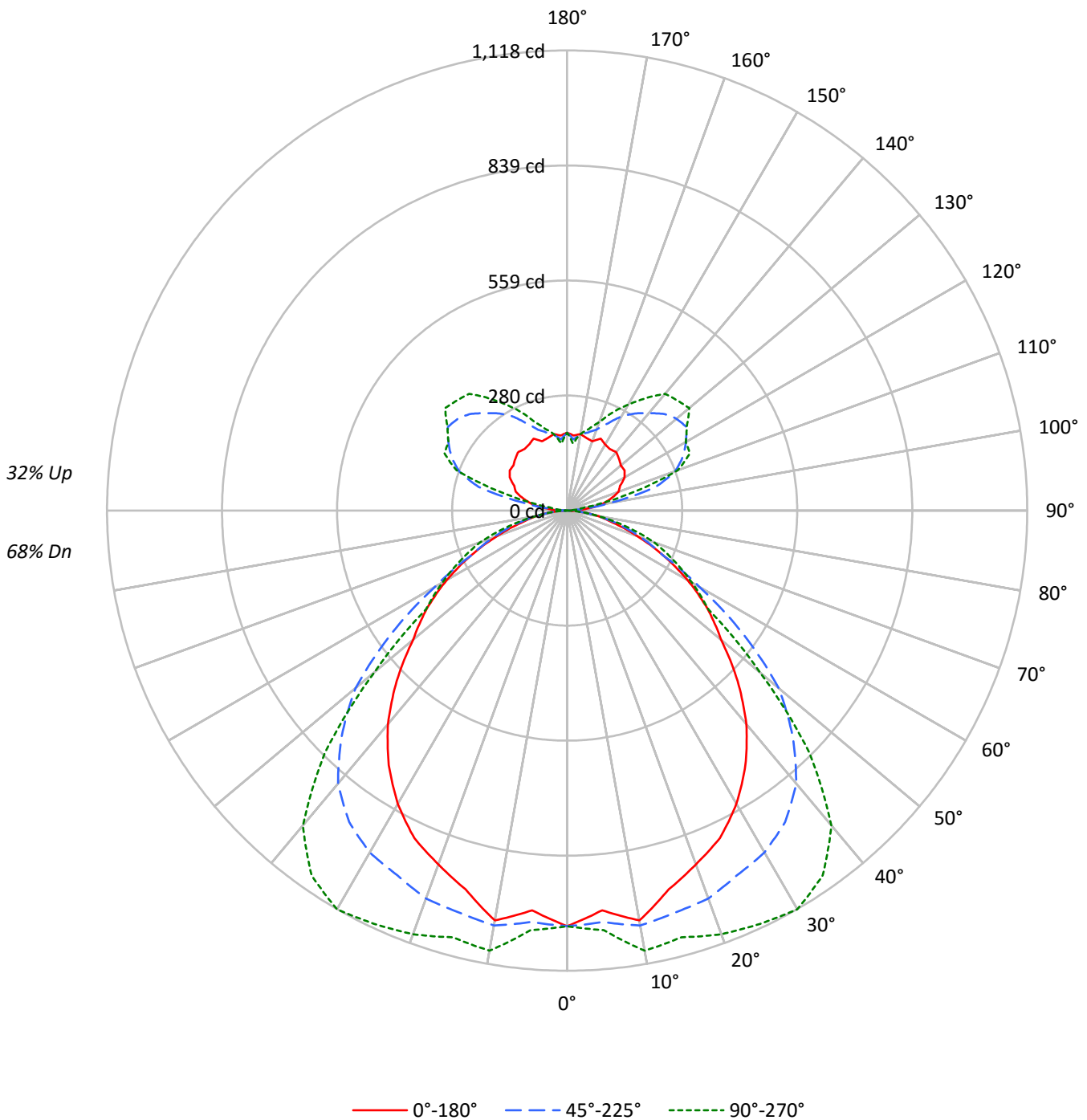
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 4219.1 lumens
Efficiency: 84.4%
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.56 / 1.47
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 59
Input Voltage (V): NR
Input Current (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	94	94	94	94	89	89	89	89	79	79	79	69	69	69	61	61	61	57				
1	86	83	79	76	81	78	75	73	70	67	65	62	60	59	55	53	52	49				
2	79	72	67	63	74	69	64	60	61	58	55	55	52	49	48	46	44	41				
3	72	64	58	53	68	61	55	51	54	50	46	48	45	42	43	40	38	35				
4	66	57	50	45	62	54	48	43	48	43	40	43	39	36	39	35	33	30				
5	61	51	44	39	57	48	42	37	43	38	34	39	35	32	35	31	29	26				
6	56	46	39	34	53	43	37	32	39	34	30	35	31	28	32	28	25	23				
7	52	41	34	30	49	39	33	29	36	30	27	32	28	25	29	25	23	21				
8	48	37	31	26	45	36	30	25	32	27	24	29	25	22	26	23	20	18				
9	45	34	28	23	42	33	27	23	30	25	21	27	23	20	24	21	18	17				
10	42	31	25	21	40	30	24	20	27	23	19	25	21	18	23	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3623	3623	3623
5°	3493	3530	3585
10°	3646	3561	3745
15°	3484	3505	3672
20°	3417	3488	3747
25°	3383	3439	3818
30°	3295	3441	3912
35°	3175	3405	3874
40°	3021	3311	3690
45°	2803	3100	3204
50°	2545	2838	2474
55°	2398	2354	1798
60°	2194	1817	1617
65°	1935	1384	1435
70°	1630	1149	1252
75°	1314	900	922
80°	1166	627	571
85°	797	282	224



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	97.6	2.3	2.0
10°-20°	287.4	6.8	5.7
20°-30°	454.5	10.8	9.1
30°-40°	571.8	13.6	11.4
40°-50°	569.5	13.5	11.4
50°-60°	422.9	10.0	8.5
60°-70°	271.9	6.4	5.4
70°-80°	142.7	3.4	2.9
80°-90°	37.3	0.9	0.7
90°-100°	41.7	1.0	0.8
100°-110°	186.1	4.4	3.7
110°-120°	273.8	6.5	5.5
120°-130°	274.7	6.5	5.5
130°-140°	236.0	5.6	4.7
140°-150°	171.3	4.1	3.4
150°-160°	107.6	2.5	2.2
160°-170°	55.3	1.3	1.1
170°-180°	17.0	0.4	0.3
0°-30°	839.5	19.9	16.8
0°-40°	1411.3	33.4	28.2
0°-60°	2403.6	57.0	48.1
0°-90°	2855.6	67.7	57.1
90°-120°	501.6	11.9	10.0
90°-150°	1183.6	28.1	23.7
90°-180°	1363.0	32.3	27.3
0°-180°	4219.1	100.0	84.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	975	1025	1003	1042	1023	95
15°	953	985	1011	1035	1073	270
25°	878	915	977	1044	1108	403
35°	755	824	923	1005	1082	471
45°	586	674	775	831	833	451
55°	416	472	520	446	418	371
65°	257	277	257	278	285	256
75°	116	127	130	140	146	129
85°	33	31	28	27	25	36
90°	5	3	3	2	1	12
95°	45	46	25	19	14	44
105°	109	183	223	190	152	114
115°	142	245	310	322	329	143
125°	170	258	354	361	355	151
135°	178	238	332	377	378	138
145°	182	211	288	324	333	115
155°	193	200	234	264	264	87
165°	182	179	196	196	206	52
175°	183	166	174	171	164	18
180°	189	189	189	189	189	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1009.7	1009.7	1009.7	1009.7	1009.7
5°	974.9	1025.2	1003.2	1042.4	1023.3
10°	1011.2	1020.0	1023.6	1039.6	1085.8
15°	952.9	984.8	1011.3	1034.7	1073.2
20°	914.5	948.1	1002.8	1064.1	1095.3
25°	878.3	914.6	977.4	1043.8	1108.0
30°	822.7	871.5	959.0	1048.8	1118.4
35°	755.3	824.3	923.4	1004.6	1082.3
40°	677.5	749.6	866.0	944.9	998.8
45°	585.5	673.7	774.7	831.3	833.0
50°	488.4	573.2	671.0	637.4	611.8
55°	416.2	472.3	520.5	445.5	418.4
60°	337.5	375.3	370.8	339.5	350.0
65°	257.2	277.0	256.7	278.0	284.8
70°	180.9	190.6	190.3	216.8	224.0
75°	116.0	127.4	129.9	139.8	145.8
80°	75.6	76.7	76.5	78.7	77.7
85°	32.6	31.1	27.8	27.0	25.3
90°	4.7	3.3	2.6	1.5	1.1
95°	45.0	45.8	25.1	18.7	14.4
100°	83.6	129.9	104.3	66.7	41.6
105°	108.6	182.6	222.8	189.8	151.9
110°	132.6	224.7	279.4	293.6	286.0
115°	141.7	245.2	310.3	321.8	328.8
120°	161.0	256.0	333.2	349.6	332.8
125°	170.3	258.1	353.8	361.0	354.6
130°	170.3	243.6	347.1	374.8	387.1
135°	178.1	237.7	332.3	377.3	378.4
140°	185.3	225.1	308.4	366.9	370.2
145°	181.8	211.0	288.1	323.7	333.3
150°	184.9	209.3	263.8	300.3	297.0
155°	192.9	199.5	233.6	264.4	263.8
160°	179.0	190.6	209.2	231.5	228.4
165°	182.2	178.6	196.5	195.6	205.6
170°	188.5	182.7	187.1	181.9	189.0
175°	182.9	166.1	173.6	171.4	163.5
180°	189.0	189.0	189.0	189.0	189.0

(END OF REPORT)