

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: 89347

Luminaire Tested: **VB-SH-3T5-DL-5**

Issue Date: 3/3/2020

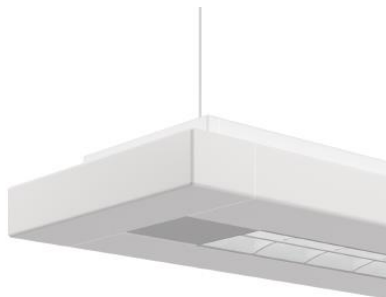
Test Information

Test Method: LM-41-14
Report Number: 89347
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VB-SH-3T5-DL-5
Description: CORELITE VERTECHS SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 38 CELL HI PERFORMANCE LOUVER
BLADE
WITH DOWNLIGHT ISOLATORS
Light Source: 54 WATT T5 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 6226.6 lumens
Efficiency: 46.1%
Efficacy: 35.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.02 / 1.18
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

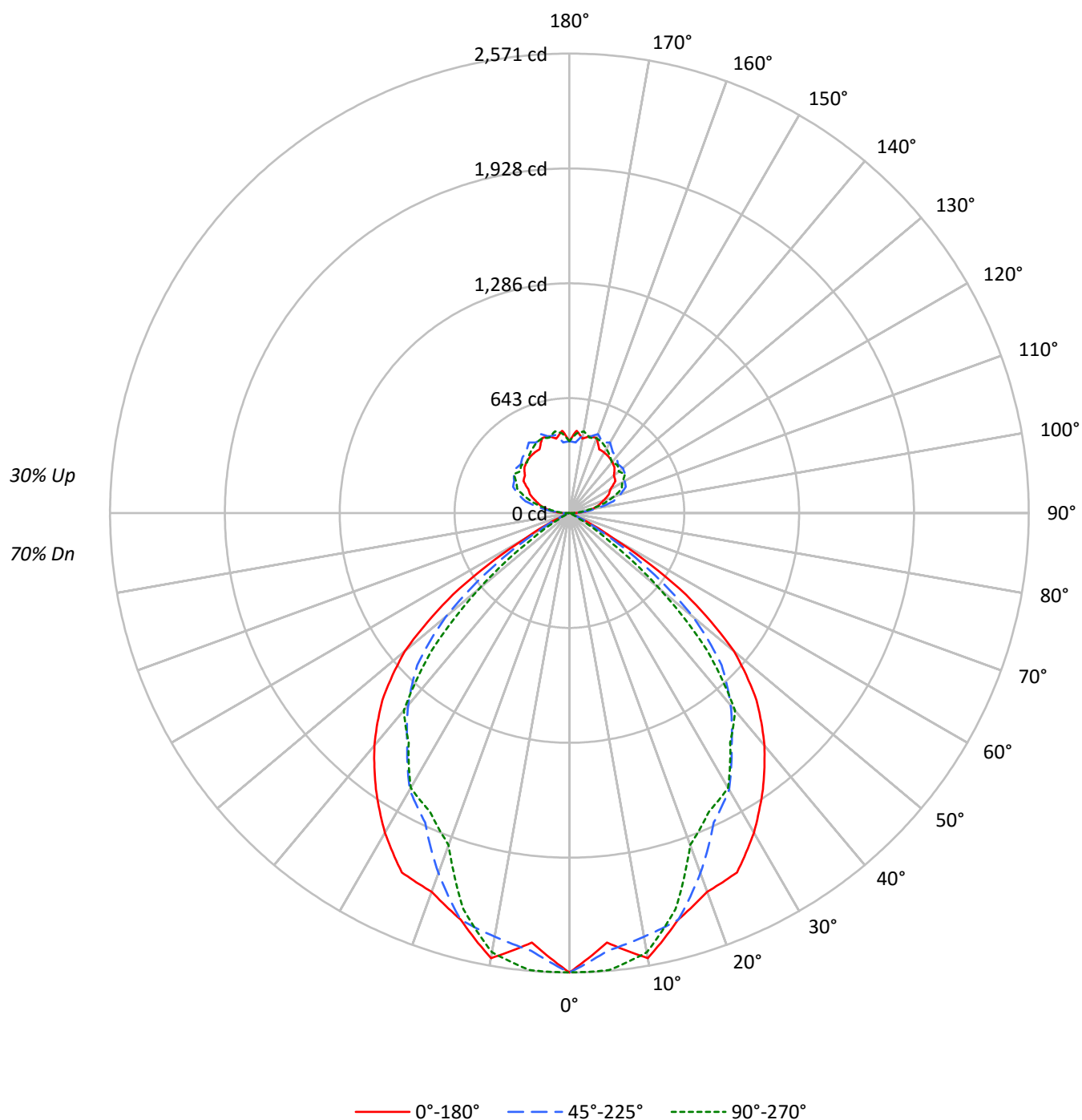
Input Watts (W): 177
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: 89347

CATALOG NUMBER: VB-SH-3T5-DL-5

Luminous Intensity Polar Plot





TEST NUMBER: 89347

CATALOG NUMBER: VB-SH-3T5-DL-5

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	52	52	52	52	49	49	49	49	44	44	44	39	39	39	34	34	34
1	48	46	45	44	46	44	43	42	40	39	38	36	35	34	32	31	31
2	45	42	39	37	42	40	38	36	36	34	33	32	31	30	29	28	28
3	41	37	35	32	39	36	33	31	33	30	29	30	28	27	27	26	25
4	38	34	31	28	36	32	29	27	30	27	25	27	25	24	24	23	22
5	35	31	27	25	34	29	26	24	27	24	22	25	23	21	22	21	20
6	33	28	24	22	31	27	24	21	25	22	20	22	20	19	21	19	18
7	31	25	22	20	29	24	21	19	22	20	18	21	19	17	19	17	16
8	29	23	20	18	27	22	19	17	21	18	16	19	17	15	18	16	14
9	27	21	18	16	25	21	18	15	19	17	15	18	16	14	16	15	13
10	25	20	17	14	24	19	16	14	18	15	13	16	14	13	15	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12092	12092	12092
5°	11307	11151	11540
10°	11905	10624	10821
15°	11214	10199	9679
20°	10955	9174	8180
25°	11085	8147	7546
30°	10701	7645	7239
35°	10242	6853	6419
40°	9746	6199	5966
45°	9096	5463	4612
50°	8004	4252	2858
55°	5841	2513	1198
60°	2359	1017	310
65°	568	299	85
70°	246	157	40
75°	136	117	20
80°	120	77	7
85°	169	77	26



TEST NUMBER: 89347

CATALOG NUMBER: VB-SH-3T5-DL-5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	237.3	3.8	1.8
10°-20°	651.9	10.5	4.8
20°-30°	920.0	14.8	6.8
30°-40°	1042.3	16.7	7.7
40°-50°	943.6	15.2	7.0
50°-60°	470.4	7.6	3.5
60°-70°	72.2	1.2	0.5
70°-80°	13.6	0.2	0.1
80°-90°	11.3	0.2	0.1
90°-100°	89.2	1.4	0.7
100°-110°	223.8	3.6	1.7
110°-120°	305.1	4.9	2.3
120°-130°	324.4	5.2	2.4
130°-140°	297.1	4.8	2.2
140°-150°	257.1	4.1	1.9
150°-160°	200.9	3.2	1.5
160°-170°	125.6	2.0	0.9
170°-180°	40.8	0.7	0.3
0°-30°	1809.1	29.1	13.4
0°-40°	2851.4	45.8	21.1
0°-60°	4265.4	68.5	31.6
0°-90°	4362.5	70.1	32.3
90°-120°	618.1	9.9	4.6
90°-150°	1496.7	24.0	11.1
90°-180°	1864.0	29.9	13.8
0°-180°	6226.6	100.0	46.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2571	2571	2571	2571	2571	
5°	2412	2461	2458	2576	2567	236
15°	2354	2391	2356	2219	2294	669
25°	2219	2147	1911	1855	1844	1011
35°	1887	1770	1583	1554	1569	1180
45°	1481	1352	1204	1158	1093	1131
55°	797	672	510	343	266	685
65°	60	60	54	28	17	105
75°	10	16	18	8	4	13
85°	6	6	9	8	4	6
90°	22	18	18	24	16	19
95°	88	91	78	79	58	76
105°	169	211	254	215	191	177
115°	242	288	347	336	323	235
125°	314	342	379	416	380	273
135°	357	381	385	396	380	273
145°	384	411	420	409	394	240
155°	394	424	435	447	435	187
165°	445	439	443	430	436	125
175°	462	412	396	432	446	42
180°	402	402	402	402	402	



TEST NUMBER: 89347

CATALOG NUMBER: VB-SH-3T5-DL-5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2570.6	2570.6	2570.6	2570.6	2570.6
5°	2411.9	2461.1	2457.8	2576.1	2567.1
10°	2528.9	2400.2	2407.1	2453.5	2495.7
15°	2354.0	2390.6	2356.0	2218.6	2294.4
20°	2254.8	2300.6	2143.6	2067.8	1976.9
25°	2218.6	2146.6	1910.9	1855.2	1844.5
30°	2064.7	1965.3	1786.5	1727.1	1776.1
35°	1887.4	1770.1	1583.0	1554.3	1568.8
40°	1698.0	1536.8	1404.6	1455.9	1441.4
45°	1481.2	1352.1	1204.2	1157.9	1092.8
50°	1202.2	1057.4	904.0	736.1	658.8
55°	796.9	671.9	510.5	343.3	266.2
60°	286.9	261.2	195.5	101.6	65.9
65°	60.1	59.9	53.8	27.6	17.1
70°	22.0	26.8	26.1	14.7	7.6
75°	9.8	15.6	17.6	7.7	3.5
80°	6.5	10.6	10.3	4.5	1.1
85°	6.1	6.4	9.0	8.2	3.7
90°	22.5	18.0	18.1	23.6	15.7
95°	88.3	90.9	78.1	79.3	58.0
100°	130.6	157.1	158.0	152.3	111.6
105°	168.9	210.9	254.2	215.3	191.1
110°	201.2	255.2	302.1	292.6	260.6
115°	242.0	287.6	347.4	336.5	322.9
120°	264.8	301.9	357.1	373.4	340.5
125°	313.9	342.5	379.4	415.6	379.5
130°	325.1	359.4	390.3	393.9	361.2
135°	357.2	380.8	384.8	395.8	380.1
140°	373.1	409.3	407.9	406.4	369.6
145°	383.9	411.4	420.0	409.0	393.6
150°	390.4	425.4	455.2	419.2	414.7
155°	393.9	424.2	435.2	446.7	435.0
160°	446.2	438.1	469.7	457.4	445.2
165°	445.2	438.8	443.3	430.3	436.4
170°	422.4	449.0	443.2	432.2	464.2
175°	462.0	412.4	396.1	431.7	446.4
180°	401.7	401.7	401.7	401.7	401.7

(END OF REPORT)