

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: 89361

Luminaire Tested: **VB-SB-3T5-DUD-2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89361  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: VB-SB-3T5-DUD-2  
Description: CORELITE VERTECHS SUSPENDED LUMINAIRE  
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER  
BLADE  
WITH LAMP ISOLATORS  
Light Source: 54 WATT T5 LAMPS  
FP54T5/841HO. LUMEN RATING = 4500 LMS.  
Ballast/Driver: -

**Summary**

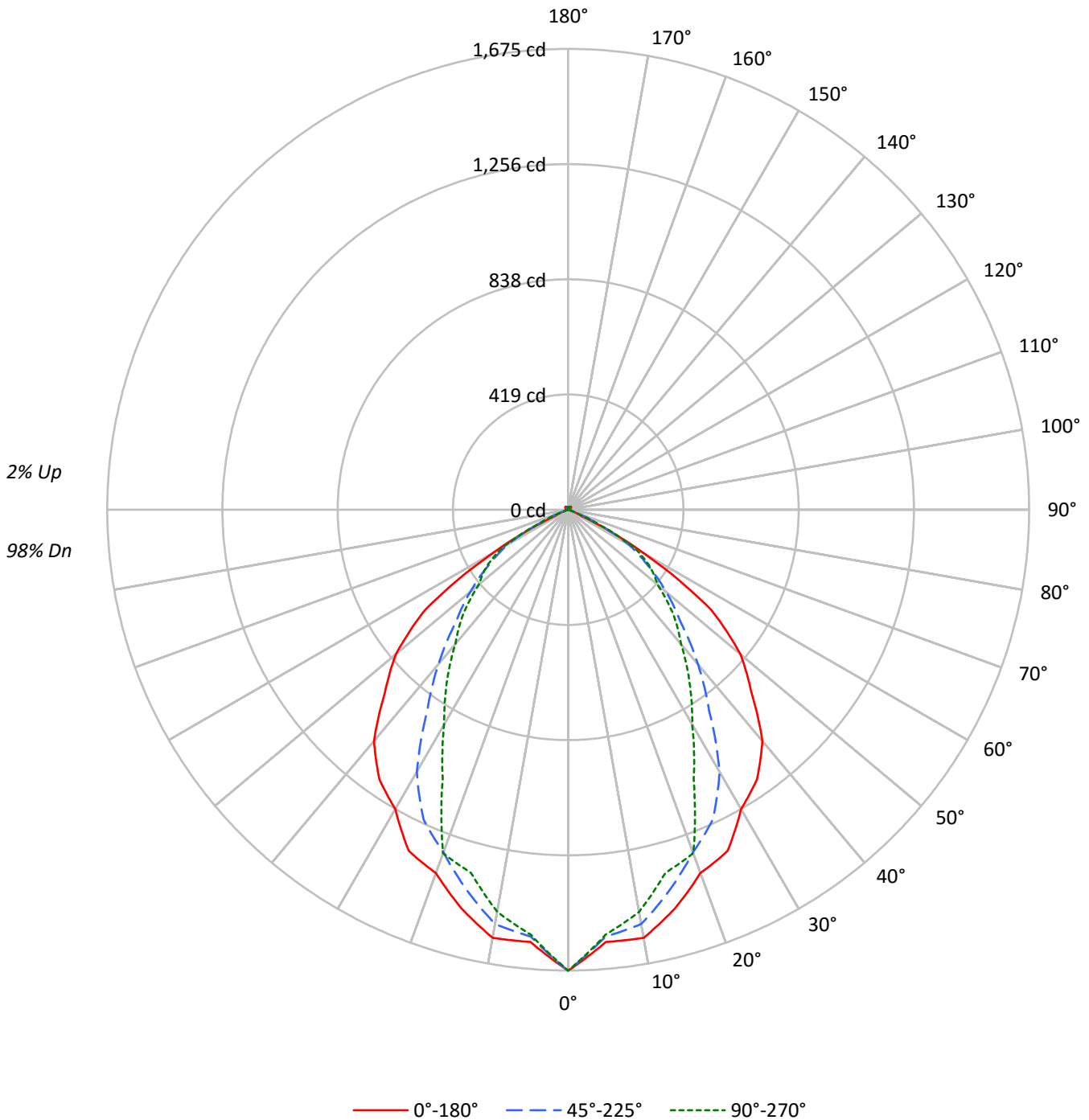
Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 2750.5 lumens  
Efficiency: 30.6%  
Efficacy: 23.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 0.91 / 1.06  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')  
CIE Type: Direct

Input Watts (W): 118  
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	0
RCR																				
0	36	36	36	36	35	35	35	35	34	34	34		32	32	32		31	31	31	30
1	34	33	32	31	33	32	31	31	31	30	30		30	29	29		29	28	28	27
2	32	30	28	27	31	29	28	26	28	27	26		27	26	25		26	25	24	24
3	29	27	25	23	29	26	24	23	25	24	23		25	23	22		24	23	22	21
4	27	24	22	20	27	24	22	20	23	21	20		22	21	20		22	20	19	19
5	25	22	20	18	25	22	20	18	21	19	18		20	19	17		20	18	17	17
6	24	20	18	16	23	20	18	16	19	17	16		19	17	16		18	17	15	15
7	22	18	16	14	22	18	16	14	18	16	14		17	15	14		17	15	14	13
8	21	17	15	13	20	17	15	13	16	14	13		16	14	13		16	14	13	12
9	19	16	13	12	19	16	13	12	15	13	12		15	13	12		14	13	12	11
10	18	15	12	11	18	14	12	11	14	12	11		14	12	11		14	12	11	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7810	7810	7810
5°	7327	7004	6910
10°	7373	6691	6378
15°	7083	6133	5711
20°	6770	5623	5451
25°	6784	5254	4375
30°	6458	4667	3642
35°	6436	3831	3121
40°	6247	3210	2619
45°	5739	2595	2267
50°	5395	2169	1825
55°	4612	1725	1621
60°	2610	1320	1307
65°	489	586	506
70°	130	122	70
75°	63	61	23
80°	27	39	11
85°	14	15	4



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	149.3	5.4	1.7
10°-20°	405.8	14.8	4.5
20°-30°	562.0	20.4	6.2
30°-40°	588.6	21.4	6.5
40°-50°	514.0	18.7	5.7
50°-60°	363.9	13.2	4.0
60°-70°	113.8	4.1	1.3
70°-80°	9.4	0.3	0.1
80°-90°	1.8	0.1	0.0
90°-100°	2.2	0.1	0.0
100°-110°	4.8	0.2	0.1
110°-120°	7.0	0.3	0.1
120°-130°	7.8	0.3	0.1
130°-140°	7.1	0.3	0.1
140°-150°	5.7	0.2	0.1
150°-160°	4.1	0.1	0.0
160°-170°	2.5	0.1	0.0
170°-180°	0.8	0.0	0.0
0°-30°	1117.1	40.6	12.4
0°-40°	1705.7	62.0	19.0
0°-60°	2583.6	93.9	28.7
0°-90°	2708.6	98.5	30.1
90°-120°	13.9	0.5	0.2
90°-150°	34.6	1.3	0.4
90°-180°	42.0	1.5	0.5
0°-180°	2750.5	100.0	30.6

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1577	1598	1558	1552	1551	152
15°	1500	1485	1429	1413	1366	422
25°	1370	1299	1243	1146	1079	623
35°	1196	1115	893	784	770	744
45°	942	798	577	533	542	733
55°	634	450	354	347	364	536
65°	52	61	106	114	102	107
75°	5	9	9	6	4	6
85°	0	1	2	1	0	1
90°	1	0	0	0	0	1
95°	7	3	1	1	0	5
105°	8	7	4	2	1	9
115°	10	10	7	5	3	10
125°	13	11	8	7	5	11
135°	13	11	9	7	6	11
145°	12	10	9	8	8	8
155°	10	10	9	8	7	5
165°	8	10	8	8	7	3
175°	8	8	9	10	10	1
180°	7	7	7	7	7	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1675.2	1675.2	1675.2	1675.2	1675.2
5°	1576.9	1597.5	1557.5	1552.4	1551.0
10°	1580.1	1549.8	1529.4	1473.0	1484.2
15°	1499.9	1485.0	1429.3	1413.2	1366.0
20°	1405.5	1403.7	1325.6	1312.0	1329.0
25°	1369.6	1299.2	1243.3	1145.6	1078.9
30°	1256.7	1202.0	1100.0	917.9	901.5
35°	1196.1	1115.1	892.7	783.8	769.6
40°	1097.5	954.8	733.6	654.0	638.5
45°	942.2	797.8	577.0	532.8	542.0
50°	817.0	637.2	465.0	433.3	424.4
55°	634.2	449.6	353.5	347.4	363.6
60°	319.9	244.3	255.7	268.7	280.0
65°	52.2	60.9	106.1	113.7	102.5
70°	11.7	17.3	20.4	19.5	13.2
75°	4.6	9.3	9.3	6.3	4.1
80°	1.5	4.4	5.3	3.4	1.7
85°	0.5	1.4	1.8	1.4	0.5
90°	0.6	0.4	0.2	0.1	0.1
95°	6.8	2.7	1.3	0.8	0.2
100°	7.7	5.2	3.2	1.6	0.6
105°	7.9	6.8	4.0	2.4	1.2
110°	8.9	7.4	6.4	3.7	2.3
115°	9.8	9.7	7.4	5.2	3.0
120°	11.2	10.1	8.4	6.0	3.9
125°	12.6	11.3	8.5	6.9	5.1
130°	13.9	10.3	8.8	7.5	5.9
135°	13.4	10.8	8.9	6.9	6.2
140°	14.1	10.5	8.6	7.6	6.7
145°	12.4	9.8	8.6	7.8	7.5
150°	11.6	10.5	8.5	7.3	7.5
155°	9.7	9.7	8.6	7.9	7.2
160°	10.9	10.7	8.8	7.1	8.0
165°	8.2	10.3	8.5	8.0	7.0
170°	8.2	9.3	9.1	8.5	8.3
175°	7.8	8.2	8.7	10.1	10.4
180°	7.0	7.0	7.0	7.0	7.0

(END OF REPORT)