

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: 89362

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89362
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VB-SB-3T5-DUD-3
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

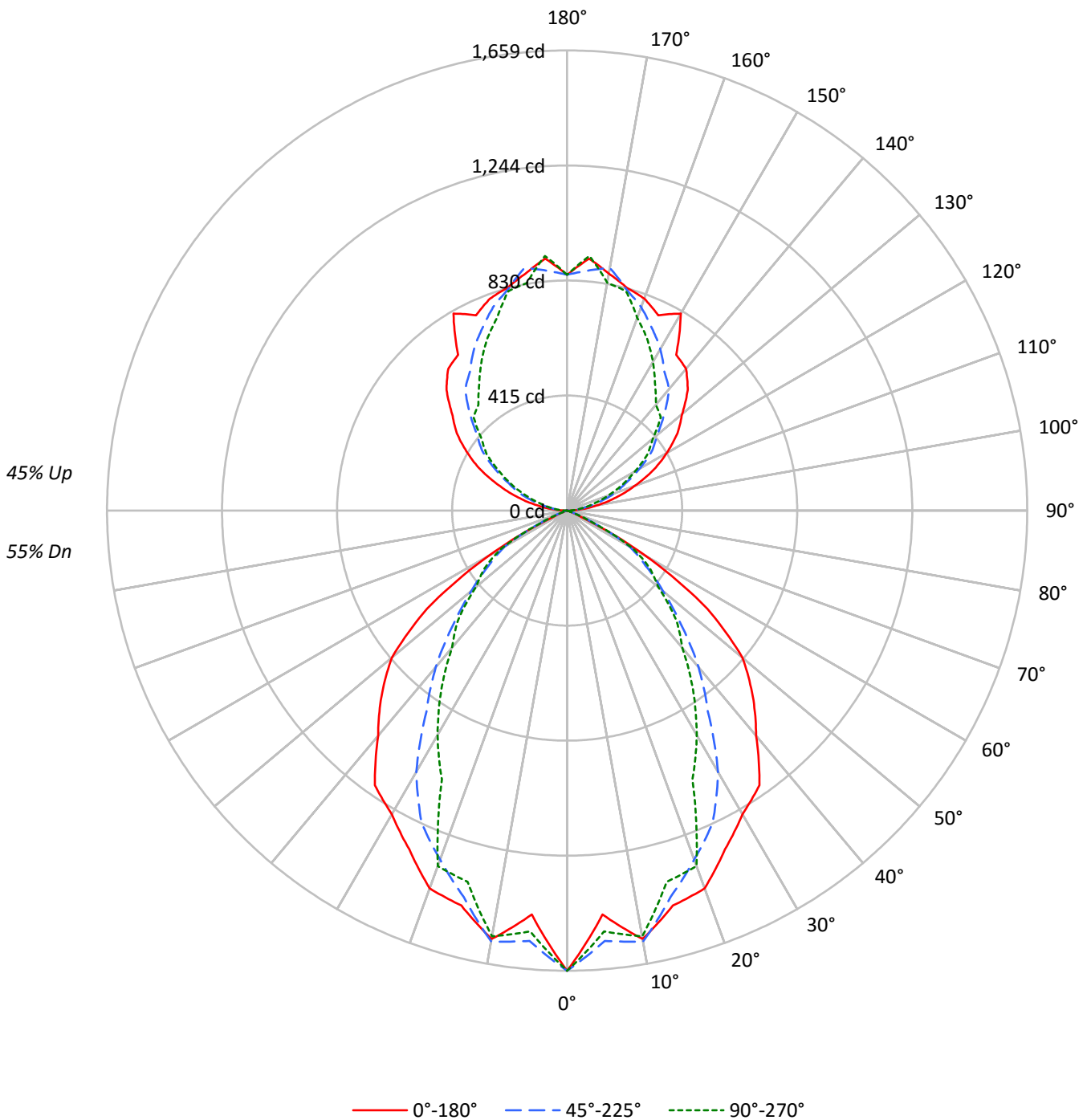
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 4943.0 lumens
Efficiency: 36.6%
Efficacy: 27.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 0.91 / 1.07
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: General Diffuse

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	0
RCR																				
0	40	40	40	40	37	37	37	37	32	32	32		27	27	27		22	22	22	20
1	37	35	34	33	34	33	32	31	28	28	27		24	24	23		21	20	20	18
2	34	32	30	28	31	29	28	26	26	24	23		22	21	20		19	18	18	16
3	31	28	26	24	29	26	24	23	23	21	20		20	19	18		17	16	15	14
4	29	25	23	21	27	24	21	20	21	19	18		18	17	16		15	15	14	13
5	27	23	20	18	25	21	19	17	19	17	15		16	15	14		14	13	12	11
6	25	21	18	16	23	19	17	15	17	15	14		15	13	12		13	12	11	10
7	23	19	16	14	21	18	15	13	16	14	12		14	12	11		12	11	10	9
8	21	17	14	13	20	16	14	12	14	12	11		13	11	10		11	10	9	8
9	20	16	13	11	19	15	12	11	13	11	10		12	10	9		10	9	8	7
10	19	14	12	10	17	14	11	10	12	10	9		11	9	8		10	8	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7736	7736	7736
5°	6793	7003	6786
10°	7319	6902	6698
15°	6962	6187	5794
20°	6982	5679	5593
25°	6674	5248	4336
30°	6496	4615	3774
35°	6503	3794	3211
40°	6036	3223	2652
45°	5768	2606	2323
50°	5449	2102	1842
55°	4486	1683	1628
60°	2667	1342	1281
65°	544	581	506
70°	119	120	67
75°	59	63	23
80°	35	37	10
85°	14	19	4



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	149.2	3.0	1.1
10°-20°	408.7	8.3	3.0
20°-30°	566.3	11.5	4.2
30°-40°	592.2	12.0	4.4
40°-50°	513.8	10.4	3.8
50°-60°	361.6	7.3	2.7
60°-70°	114.4	2.3	0.8
70°-80°	9.4	0.2	0.1
80°-90°	2.8	0.1	0.0
90°-100°	40.1	0.8	0.3
100°-110°	138.9	2.8	1.0
110°-120°	251.9	5.1	1.9
120°-130°	346.0	7.0	2.6
130°-140°	397.1	8.0	2.9
140°-150°	395.8	8.0	2.9
150°-160°	338.9	6.9	2.5
160°-170°	232.5	4.7	1.7
170°-180°	83.2	1.7	0.6
0°-30°	1124.3	22.7	8.3
0°-40°	1716.4	34.7	12.7
0°-60°	2591.8	52.4	19.2
0°-90°	2718.4	55.0	20.1
90°-120°	430.9	8.7	3.2
90°-150°	1569.8	31.8	11.6
90°-180°	2225.0	45.0	16.5
0°-180°	4943.0	100.0	36.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1462	1613	1557	1569	1523	146
15°	1474	1476	1442	1416	1386	421
25°	1347	1306	1242	1153	1069	624
35°	1209	1121	884	787	792	743
45°	947	804	579	528	555	730
55°	617	452	345	351	365	532
65°	58	62	105	115	103	111
75°	4	9	10	6	4	6
85°	0	1	2	1	0	1
90°	4	4	4	3	3	8
95°	49	36	31	29	30	56
105°	183	145	121	112	101	194
115°	341	275	232	227	219	335
125°	486	418	373	338	354	431
135°	615	548	496	468	477	471
145°	685	696	611	587	553	447
155°	777	768	724	700	683	369
165°	832	851	825	787	819	236
175°	912	847	869	880	921	85
180°	850	850	850	850	850	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1659.2	1659.2	1659.2	1659.2	1659.2
5°	1462.0	1612.8	1557.4	1568.8	1523.0
10°	1568.4	1569.3	1577.6	1445.2	1558.6
15°	1474.2	1476.5	1441.9	1416.0	1385.7
20°	1449.5	1413.6	1338.8	1334.6	1363.8
25°	1347.3	1305.7	1241.8	1152.7	1069.3
30°	1264.2	1227.0	1087.9	955.7	934.2
35°	1208.6	1120.8	884.1	786.7	791.7
40°	1060.4	967.0	736.5	645.0	646.4
45°	947.0	803.6	579.4	528.0	555.3
50°	825.2	628.3	450.6	429.1	428.3
55°	617.0	452.5	344.9	350.9	365.1
60°	326.9	237.5	260.0	270.5	274.6
65°	58.0	62.4	105.2	115.4	102.6
70°	10.7	17.3	20.0	19.8	12.7
75°	4.3	9.3	9.6	6.2	4.0
80°	1.9	5.0	5.0	3.8	1.6
85°	0.5	1.4	2.3	1.3	0.5
90°	4.5	3.5	3.6	3.2	3.4
95°	49.2	35.5	30.6	29.1	30.3
100°	110.9	86.2	66.5	65.8	63.3
105°	182.8	144.7	121.1	112.0	101.3
110°	257.2	202.0	180.4	170.8	157.0
115°	341.2	275.1	231.5	226.7	219.0
120°	414.8	346.9	300.3	288.5	282.2
125°	485.5	418.2	373.1	337.7	353.9
130°	540.8	503.9	423.2	406.2	402.7
135°	614.9	548.5	495.9	467.6	477.0
140°	667.1	621.2	571.9	528.7	497.6
145°	685.3	695.5	611.1	587.0	552.8
150°	820.0	744.1	672.1	647.1	618.2
155°	777.0	767.8	724.3	700.3	682.6
160°	813.2	814.4	780.2	749.8	739.1
165°	831.7	851.2	825.3	786.9	819.3
170°	867.2	898.7	887.9	849.3	833.3
175°	911.6	846.6	868.7	880.4	921.3
180°	849.9	849.9	849.9	849.9	849.9

(END OF REPORT)