

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: 89322

Luminaire Tested: **VB-SB-3T5-DL-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89322
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VB-SB-3T5-DL-6
Description: CORELITE VERTECHS SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER
BLADE
WITH DOWNLIGHT ISOLATORS
Light Source: 54 WATT T5 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

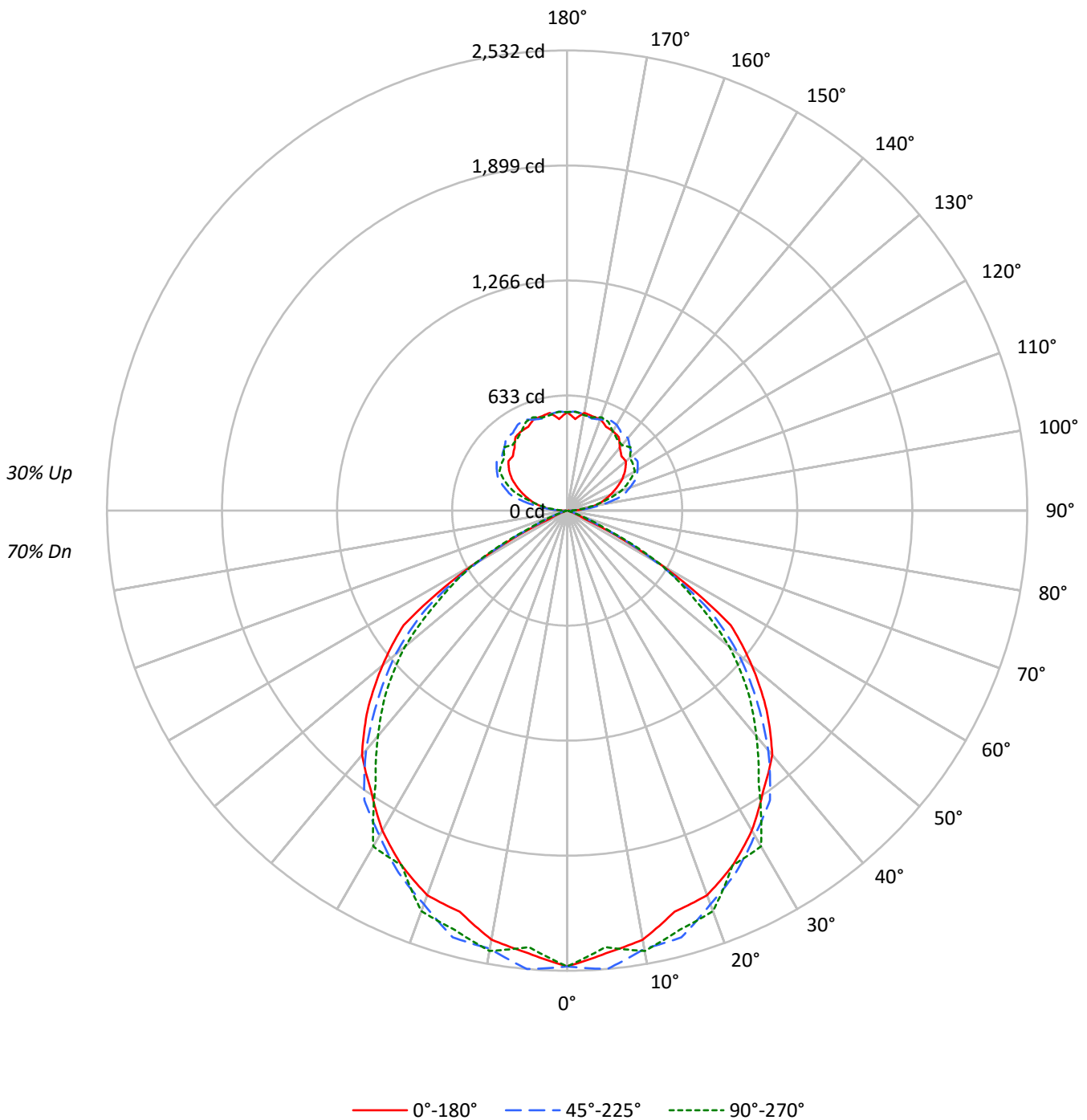
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 7690.9 lumens
Efficiency: 57.0%
Efficacy: 43.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

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



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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	64	64	64	64	60	60	60	60	54	54	54	48	48	48	43	43	43	40
1	59	57	55	53	56	54	52	51	49	47	46	44	43	42	39	38	38	36
2	55	51	48	45	52	48	46	43	44	42	40	39	38	36	35	34	33	31
3	50	45	41	38	48	43	40	37	39	36	34	35	33	32	32	30	29	27
4	46	41	36	33	44	39	35	32	35	32	30	32	30	28	29	27	25	24
5	43	36	32	29	40	35	31	28	32	29	26	29	26	24	26	24	23	21
6	40	33	28	25	37	31	27	24	29	25	23	26	24	21	24	22	20	19
7	37	30	25	22	35	29	25	22	26	23	20	24	21	19	22	20	18	17
8	34	27	23	20	32	26	22	19	24	21	18	22	19	17	20	18	16	15
9	32	25	21	18	30	24	20	17	22	19	16	20	18	16	19	16	15	14
10	30	23	19	16	28	22	18	16	20	17	15	19	16	14	17	15	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11693	11693	11693
5°	11360	11387	10741
10°	11185	10709	10573
15°	10789	10429	9988
20°	10846	9776	9618
25°	10673	9287	8732
30°	10446	8760	8620
35°	10123	8347	7452
40°	9994	7531	6644
45°	9458	6628	5885
50°	8756	5749	5012
55°	7985	4665	3852
60°	4865	2932	2796
65°	994	1098	1104
70°	269	307	206
75°	171	183	74
80°	110	121	35
85°	157	95	32



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	234.1	3.0	1.7
10°-20°	675.3	8.8	5.0
20°-30°	1010.4	13.1	7.5
30°-40°	1196.8	15.6	8.9
40°-50°	1152.1	15.0	8.5
50°-60°	842.0	10.9	6.2
60°-70°	245.4	3.2	1.8
70°-80°	25.9	0.3	0.2
80°-90°	13.8	0.2	0.1
90°-100°	106.1	1.4	0.8
100°-110°	273.6	3.6	2.0
110°-120°	373.7	4.9	2.8
120°-130°	401.2	5.2	3.0
130°-140°	371.0	4.8	2.7
140°-150°	319.3	4.2	2.4
150°-160°	247.8	3.2	1.8
160°-170°	151.4	2.0	1.1
170°-180°	51.1	0.7	0.4
0°-30°	1919.8	25.0	14.2
0°-40°	3116.6	40.5	23.1
0°-60°	5110.7	66.5	37.9
0°-90°	5395.7	70.2	40.0
90°-120°	753.4	9.8	5.6
90°-150°	1844.9	24.0	13.7
90°-180°	2295.0	29.8	17.0
0°-180°	7690.9	100.0	57.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2508	2508	2508	2508	2508	
5°	2445	2364	2532	2457	2411	232
15°	2285	2358	2430	2467	2389	652
25°	2154	2211	2198	2168	2154	992
35°	1881	1989	1945	1906	1838	1183
45°	1553	1616	1474	1429	1407	1194
55°	1098	1056	956	881	864	919
65°	106	128	199	250	224	204
75°	12	21	28	22	13	14
85°	6	7	11	12	5	6
90°	20	19	19	30	17	19
95°	92	107	97	96	63	86
105°	204	260	316	272	219	215
115°	302	359	420	395	376	299
125°	390	424	473	490	443	348
135°	422	489	488	488	493	332
145°	495	526	521	494	479	305
155°	508	551	552	527	538	237
165°	537	528	524	540	530	153
175°	505	536	546	527	545	50
180°	542	542	542	542	542	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2508.0	2508.0	2508.0	2508.0	2508.0
5°	2444.9	2364.3	2532.2	2457.3	2410.7
10°	2397.0	2437.6	2447.8	2457.2	2460.3
15°	2284.6	2358.2	2430.5	2467.0	2388.8
20°	2251.8	2311.7	2304.5	2333.0	2345.2
25°	2154.5	2211.2	2197.5	2168.1	2153.5
30°	2032.8	2071.1	2064.9	2085.4	2133.9
35°	1881.3	1988.8	1945.0	1906.0	1837.6
40°	1755.8	1821.6	1721.0	1638.8	1619.5
45°	1552.9	1615.7	1473.6	1429.3	1406.9
50°	1325.9	1367.4	1232.7	1170.4	1165.5
55°	1098.2	1056.3	955.8	880.6	864.0
60°	596.3	583.9	568.1	584.6	599.2
65°	106.0	128.5	199.0	250.4	223.7
70°	24.2	38.2	51.3	59.0	39.0
75°	12.4	21.0	27.8	22.1	13.0
80°	6.0	11.6	16.4	11.5	5.5
85°	5.7	6.8	11.2	12.3	4.6
90°	19.6	18.6	18.8	29.7	17.0
95°	92.4	107.3	96.7	96.4	62.9
100°	153.7	184.6	200.3	184.3	140.6
105°	204.3	259.6	315.8	272.4	218.6
110°	252.1	304.3	365.2	357.1	316.1
115°	301.8	358.7	419.5	395.3	375.6
120°	351.3	400.6	447.2	458.6	429.5
125°	390.0	424.3	472.9	490.0	443.3
130°	422.3	464.7	467.9	485.3	450.9
135°	422.5	489.1	487.7	487.5	493.0
140°	450.7	499.1	520.3	492.9	469.3
145°	495.2	526.1	521.1	493.7	479.4
150°	504.1	530.8	544.9	533.8	502.0
155°	508.0	550.8	551.5	527.0	537.5
160°	534.7	535.8	532.5	545.3	546.7
165°	536.8	527.5	524.2	540.1	529.9
170°	545.9	529.7	537.6	531.0	533.5
175°	505.1	535.6	546.3	527.2	545.3
180°	541.5	541.5	541.5	541.5	541.5

(END OF REPORT)