

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: 89325

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89325
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VB-SB-3T5-DL-3
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

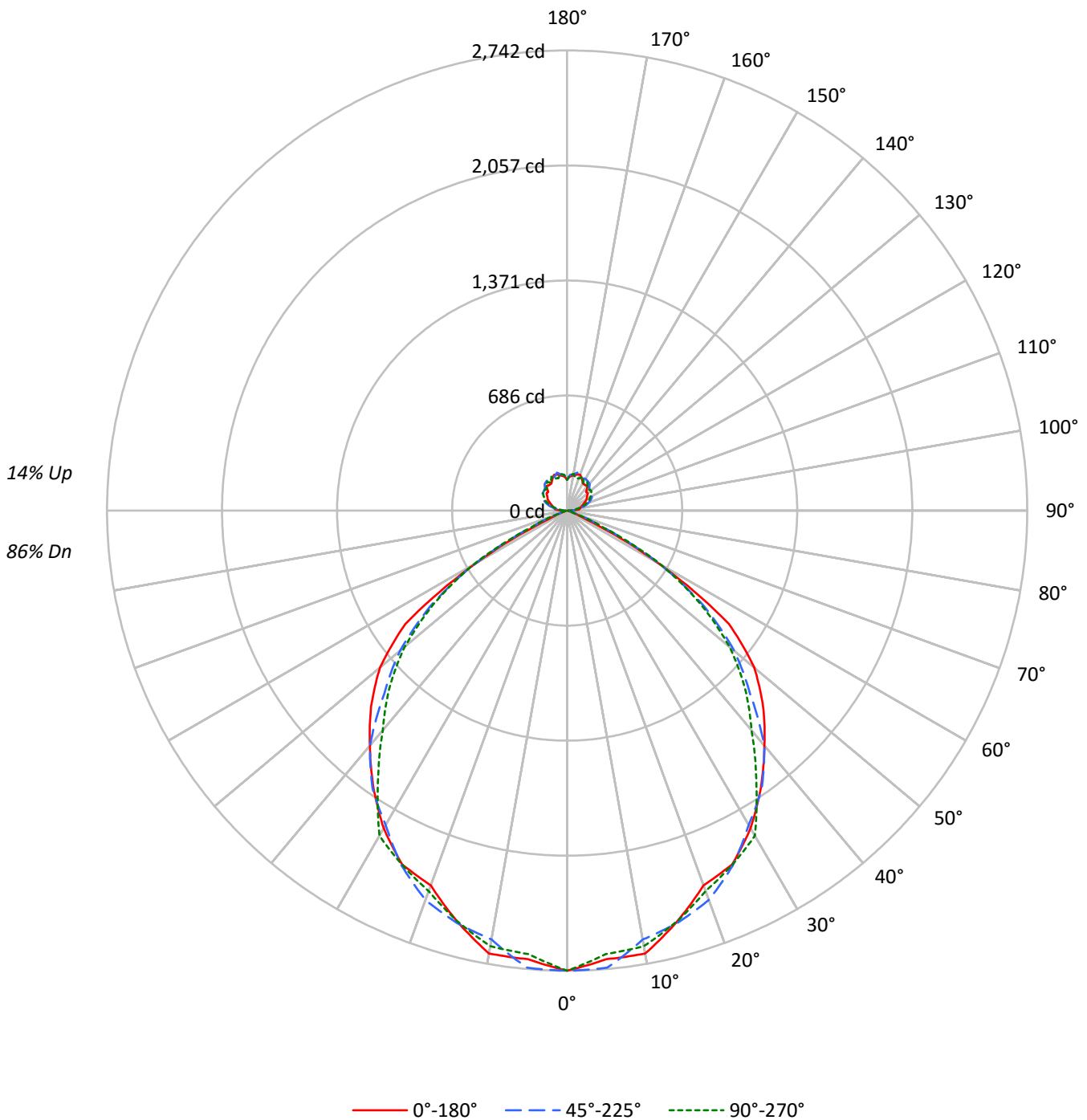
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 6619.9 lumens
Efficiency: 49.0%
Efficacy: 37.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12782	12782	12782
5°	12469	12297	11819
10°	12506	11354	11327
15°	11968	10913	10590
20°	11447	10474	9896
25°	11524	9863	9440
30°	11233	9177	9039
35°	10832	8674	7967
40°	10410	8001	7013
45°	10062	6930	6275
50°	9614	6066	5432
55°	8550	4866	4325
60°	5093	3280	3025
65°	1103	1255	1191
70°	299	322	213
75°	158	187	82
80°	130	119	42
85°	135	85	30



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	254.0	3.8	1.9
10°-20°	717.8	10.8	5.3
20°-30°	1072.9	16.2	7.9
30°-40°	1255.7	19.0	9.3
40°-50°	1213.8	18.3	9.0
50°-60°	902.4	13.6	6.7
60°-70°	267.1	4.0	2.0
70°-80°	27.0	0.4	0.2
80°-90°	11.3	0.2	0.1
90°-100°	49.0	0.7	0.4
100°-110°	104.7	1.6	0.8
110°-120°	141.8	2.1	1.1
120°-130°	153.5	2.3	1.1
130°-140°	143.6	2.2	1.1
140°-150°	126.8	1.9	0.9
150°-160°	97.4	1.5	0.7
160°-170°	61.2	0.9	0.5
170°-180°	20.0	0.3	0.1
0°-30°	2044.7	30.9	15.1
0°-40°	3300.4	49.9	24.4
0°-60°	5416.6	81.8	40.1
0°-90°	5721.9	86.4	42.4
90°-120°	295.5	4.5	2.2
90°-150°	719.4	10.9	5.3
90°-180°	898.0	13.6	6.7
0°-180°	6619.9	100.0	49.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2742	2742	2742	2742	2742	
5°	2684	2623	2735	2614	2653	257
15°	2534	2557	2543	2565	2533	714
25°	2326	2340	2334	2325	2328	1064
35°	2013	2050	2021	1975	1965	1259
45°	1652	1697	1541	1492	1500	1273
55°	1176	1133	997	957	970	988
65°	118	143	228	272	241	217
75°	12	22	28	23	14	15
85°	5	6	10	9	4	6
90°	21	14	13	14	11	16
95°	68	52	42	40	32	50
105°	87	97	108	102	88	93
115°	115	130	156	158	144	115
125°	144	162	178	197	176	130
135°	160	186	187	197	178	130
145°	185	198	214	205	208	118
155°	208	205	211	215	222	96
165°	222	219	234	207	200	63
175°	204	199	215	224	213	20
180°	184	184	184	184	184	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2741.6	2741.6	2741.6	2741.6	2741.6
5°	2683.5	2622.9	2734.7	2614.5	2652.8
10°	2680.1	2633.0	2595.4	2650.5	2635.8
15°	2534.4	2557.1	2543.2	2564.8	2532.9
20°	2376.4	2437.5	2469.1	2414.9	2412.9
25°	2326.3	2339.6	2333.8	2324.9	2328.2
30°	2186.0	2215.7	2163.2	2216.2	2237.6
35°	2013.1	2050.2	2021.2	1975.0	1964.7
40°	1828.9	1880.9	1828.5	1725.6	1709.5
45°	1652.0	1696.9	1540.7	1492.1	1500.2
50°	1455.9	1432.9	1300.7	1249.2	1263.2
55°	1175.9	1133.1	996.9	956.6	970.0
60°	624.3	608.7	635.5	637.8	648.3
65°	117.7	143.3	227.5	271.9	241.3
70°	26.9	38.5	53.9	63.5	40.3
75°	11.5	21.5	28.5	23.4	14.4
80°	7.1	13.1	16.2	11.6	6.6
85°	4.9	6.5	10.1	8.9	4.2
90°	21.4	14.3	13.1	13.9	10.9
95°	68.5	52.2	42.3	39.9	32.4
100°	77.0	80.7	74.7	68.9	59.5
105°	87.1	97.1	108.5	101.6	87.8
110°	99.5	120.2	136.6	137.4	119.5
115°	114.9	129.7	156.2	158.0	143.8
120°	134.0	147.2	172.3	172.5	158.1
125°	143.8	161.5	177.8	196.8	176.1
130°	160.2	168.7	181.1	186.8	186.8
135°	159.7	186.5	186.6	196.6	177.6
140°	191.0	190.6	207.6	196.6	186.7
145°	185.2	198.1	214.0	205.4	208.3
150°	187.0	203.9	219.2	207.3	189.3
155°	207.8	205.3	211.3	215.2	222.2
160°	227.1	210.5	215.5	215.5	203.5
165°	222.5	218.6	234.2	207.0	199.8
170°	212.1	221.0	217.4	202.5	221.7
175°	204.5	199.4	215.2	224.5	213.0
180°	183.9	183.9	183.9	183.9	183.9

(END OF REPORT)