

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: 89349

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

Issue Date: 3/3/2020

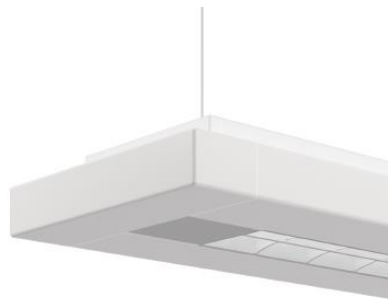
**Test Information**

Test Method: LM-41-14  
Report Number: 89349  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: VB-SH-3T5-DL-3  
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**

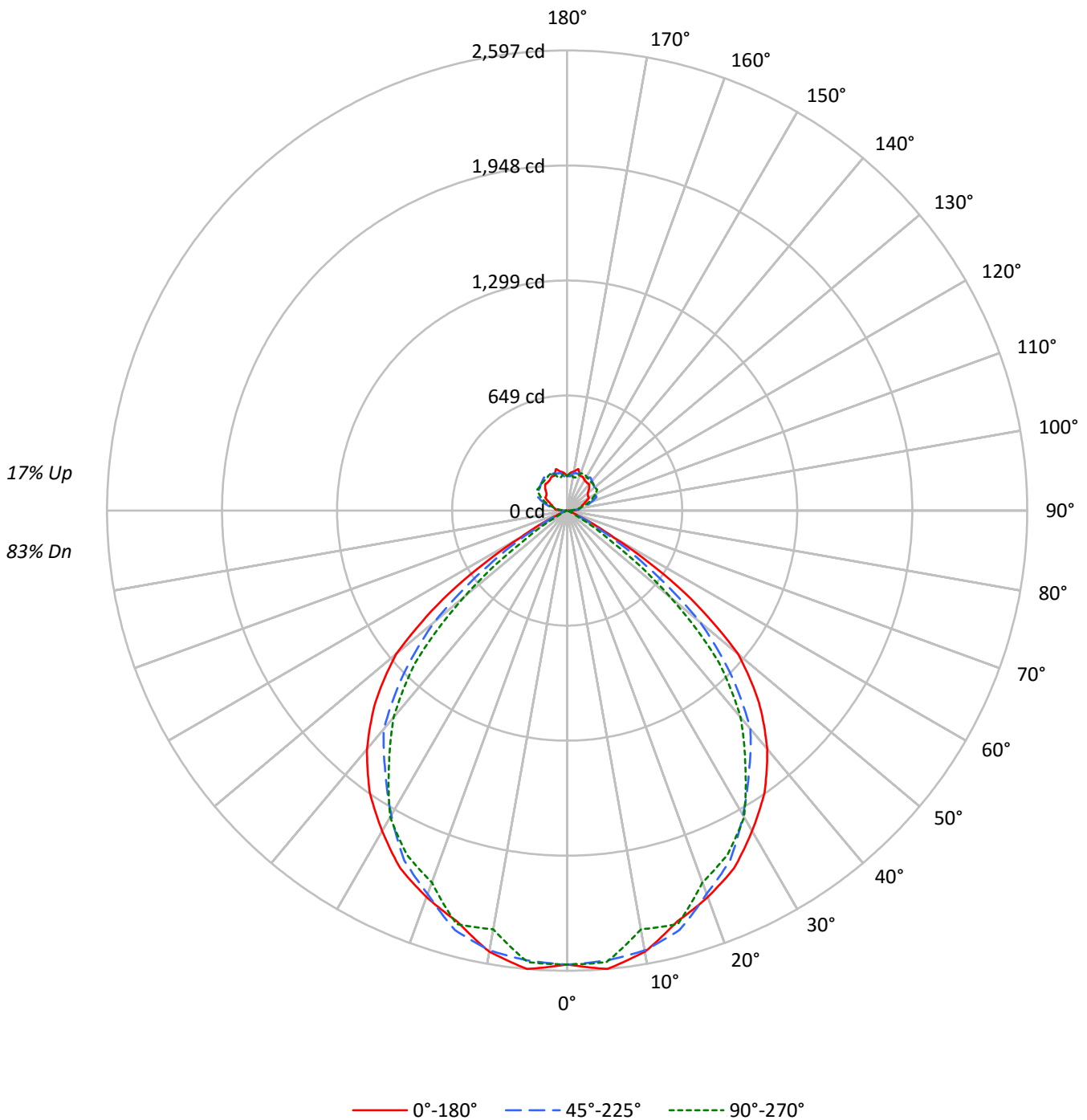
Lumens per Lamp: 4500 (3 lamps)  
Luminaire Lumens: 5675.9 lumens  
Efficiency: 42.0%  
Efficacy: 32.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.17 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')  
CIE Type: Semi-Direct

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



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

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

	0°	45°	90°
0°	12052	12052	12052
5°	12173	11565	11499
10°	11901	11126	10407
15°	11435	10607	10189
20°	11278	9852	9242
25°	11131	9280	8761
30°	10821	8493	8139
35°	10538	7751	7174
40°	10086	7104	6303
45°	9402	5931	5114
50°	8383	4597	3300
55°	5979	2691	1431
60°	2505	1112	344
65°	613	331	92
70°	256	175	42
75°	168	122	21
80°	131	88	10
85°	152	65	22



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	243.0	4.3	1.8
10°-20°	683.4	12.0	5.1
20°-30°	1001.1	17.6	7.4
30°-40°	1146.4	20.2	8.5
40°-50°	1023.9	18.0	7.6
50°-60°	516.0	9.1	3.8
60°-70°	78.8	1.4	0.6
70°-80°	14.7	0.3	0.1
80°-90°	10.4	0.2	0.1
90°-100°	53.6	0.9	0.4
100°-110°	114.2	2.0	0.8
110°-120°	156.8	2.8	1.2
120°-130°	167.7	3.0	1.2
130°-140°	156.1	2.7	1.2
140°-150°	130.7	2.3	1.0
150°-160°	99.0	1.7	0.7
160°-170°	60.3	1.1	0.4
170°-180°	19.7	0.3	0.1
0°-30°	1927.5	34.0	14.3
0°-40°	3073.9	54.2	22.8
0°-60°	4613.8	81.3	34.2
0°-90°	4717.7	83.1	34.9
90°-120°	324.6	5.7	2.4
90°-150°	779.1	13.7	5.8
90°-180°	958.0	16.9	7.1
0°-180°	5675.9	100.0	42.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2562	2562	2562	2562	2562	
5°	2597	2545	2549	2628	2558	245
15°	2400	2475	2450	2409	2415	681
25°	2228	2226	2177	2097	2142	1023
35°	1942	1894	1790	1794	1753	1211
45°	1531	1455	1307	1248	1212	1173
55°	816	747	547	398	318	710
65°	65	66	60	31	18	112
75°	12	17	18	9	4	14
85°	6	6	8	7	3	6
90°	26	20	16	16	12	17
95°	66	60	44	45	34	47
105°	84	117	114	118	93	88
115°	113	143	183	181	155	114
125°	144	164	198	219	206	130
135°	174	194	210	220	208	134
145°	192	190	228	213	213	122
155°	210	202	219	217	227	96
165°	243	203	216	206	192	65
175°	214	215	194	210	212	21
180°	195	195	195	195	195	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2562.0	2562.0	2562.0	2562.0	2562.0
5°	2596.6	2544.7	2549.0	2628.0	2557.9
10°	2528.1	2510.0	2520.7	2510.7	2400.0
15°	2400.5	2475.2	2450.3	2409.1	2415.2
20°	2321.2	2388.1	2302.0	2244.2	2233.5
25°	2227.8	2225.8	2176.8	2096.9	2141.6
30°	2087.9	2132.6	1984.6	1968.2	1996.9
35°	1942.1	1894.2	1790.5	1793.8	1753.3
40°	1757.3	1736.1	1609.6	1533.3	1522.7
45°	1531.0	1455.3	1307.4	1247.9	1211.7
50°	1259.2	1175.1	977.3	819.8	760.6
55°	815.7	746.8	546.6	398.0	318.1
60°	304.6	282.9	213.6	115.6	73.0
65°	64.9	66.2	59.5	31.1	18.4
70°	22.9	27.1	29.0	14.9	7.8
75°	12.1	17.3	18.4	8.9	3.6
80°	7.1	11.6	11.8	4.7	1.6
85°	5.5	6.3	7.6	6.6	3.1
90°	25.5	19.5	15.8	16.2	11.6
95°	65.6	59.9	44.4	44.8	34.5
100°	70.4	86.7	84.1	79.5	65.0
105°	84.3	116.9	113.7	117.6	92.8
110°	93.4	131.9	149.0	148.4	124.9
115°	113.4	143.4	183.3	181.0	155.4
120°	141.7	159.7	180.3	206.8	181.8
125°	143.8	164.2	197.7	219.2	206.2
130°	151.6	178.7	200.6	214.6	203.7
135°	174.4	193.5	209.8	220.3	208.3
140°	193.4	192.7	217.5	212.7	210.9
145°	192.4	190.2	227.8	212.6	213.4
150°	197.8	200.7	216.7	212.3	220.1
155°	209.9	201.6	218.7	217.2	226.9
160°	209.5	223.1	224.0	212.4	223.6
165°	242.9	203.1	216.0	205.6	192.5
170°	224.3	212.1	216.2	199.3	191.8
175°	214.5	214.7	194.0	210.2	211.9
180°	194.9	194.9	194.9	194.9	194.9

(END OF REPORT)