

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: 89301

Luminaire Tested: **VB-SB-2T8-DL-3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89301  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: VB-SB-2T8-DL-3  
Description: CORELITE VERTECHS SUSPENDED LUMINAIRE  
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER  
BLADE  
WITH DOWNLIGHT ISOLATORS  
Light Source: 32 WATT T8 LAMPS  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
Ballast/Driver: -

**Summary**

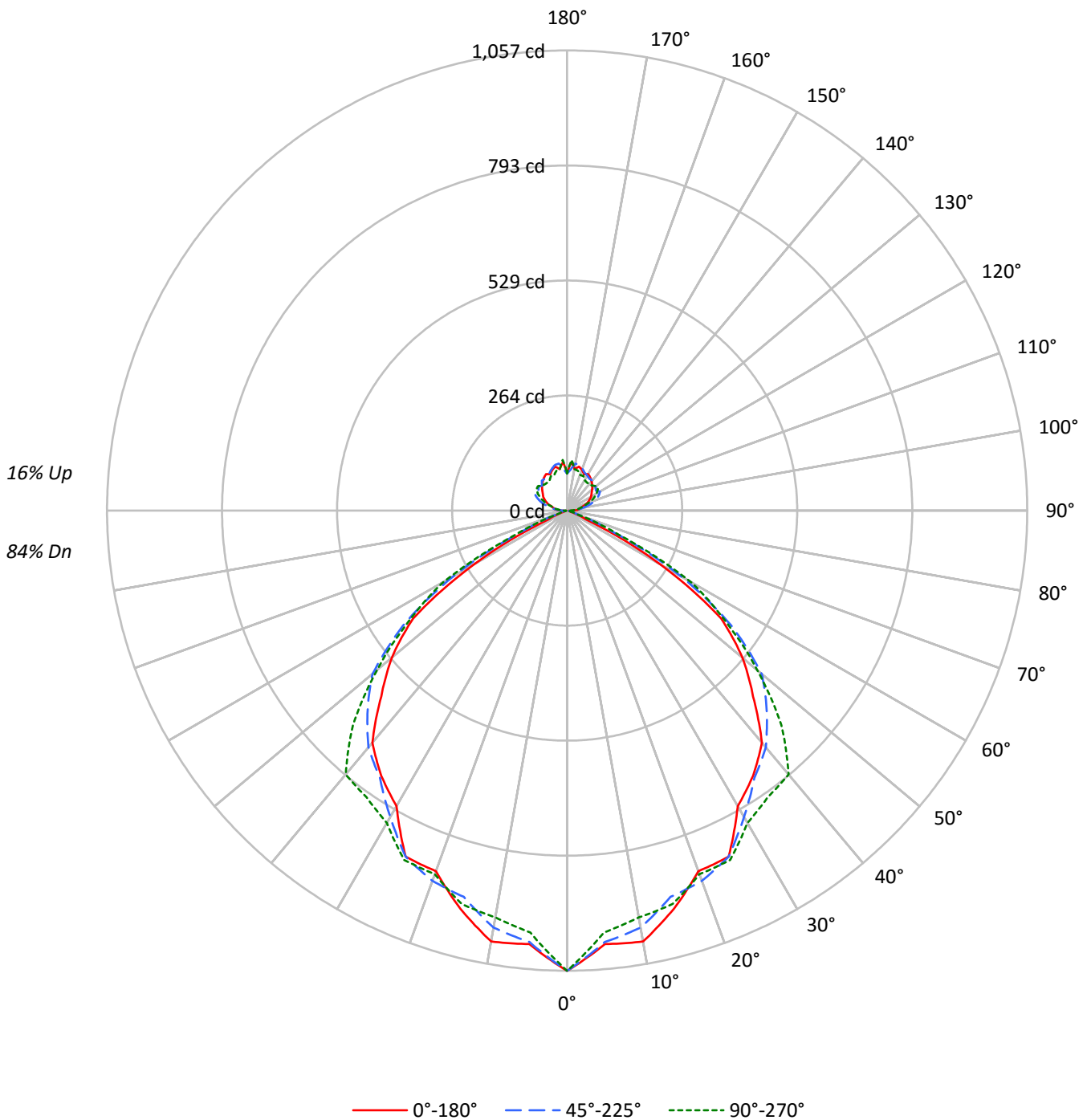
Lumens per Lamp: 2900 (2 lamps)  
Luminaire Lumens: 2699.8 lumens  
Efficiency: 46.5%  
Efficacy: 34.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.18 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')  
CIE Type: Semi-Direct

Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	50	30	10	0	
RCR																						
0	54	54	54	54	52	52	52	52	48	48	48	44	44	44	41	41	41	39				
1	50	48	47	45	48	46	45	44	43	42	41	40	39	39	37	37	36	35				
2	46	43	40	38	44	41	39	37	39	37	35	36	35	33	34	33	32	30				
3	42	38	35	32	41	37	34	32	35	32	30	32	30	29	30	29	27	26				
4	39	34	31	28	37	33	30	27	31	28	26	29	27	25	27	26	24	23				
5	36	31	27	24	35	30	26	24	28	25	23	26	24	22	25	23	21	20				
6	33	28	24	21	32	27	23	21	25	22	20	24	21	19	23	20	19	18				
7	31	25	21	19	30	24	21	18	23	20	18	22	19	17	21	18	17	16				
8	29	23	19	17	28	22	19	17	21	18	16	20	17	15	19	17	15	14				
9	27	21	17	15	26	20	17	15	19	16	14	18	16	14	18	15	14	13				
10	25	19	16	14	24	19	16	13	18	15	13	17	15	13	16	14	12	12				

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

	0°	45°	90°
0°	4929	4929	4929
5°	4645	4474	4334
10°	4691	4256	4077
15°	4472	3941	3912
20°	4246	3839	3645
25°	4346	3708	3590
30°	4028	3447	3346
35°	4004	3218	3259
40°	3962	3106	3247
45°	3678	2917	2910
50°	3474	2722	2454
55°	3141	2246	1986
60°	2018	1563	1534
65°	442	632	646
70°	116	152	111
75°	76	83	42
80°	66	56	17
85°	88	38	13



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	94.4	3.5	1.6
10°-20°	264.5	9.8	4.6
20°-30°	399.2	14.8	6.9
30°-40°	483.2	17.9	8.3
40°-50°	500.1	18.5	8.6
50°-60°	391.8	14.5	6.8
60°-70°	128.4	4.8	2.2
70°-80°	12.7	0.5	0.2
80°-90°	6.1	0.2	0.1
90°-100°	24.6	0.9	0.4
100°-110°	50.3	1.9	0.9
110°-120°	69.2	2.6	1.2
120°-130°	72.3	2.7	1.2
130°-140°	65.6	2.4	1.1
140°-150°	55.3	2.0	1.0
150°-160°	43.5	1.6	0.7
160°-170°	28.9	1.1	0.5
170°-180°	9.8	0.4	0.2
0°-30°	758.1	28.1	13.1
0°-40°	1241.3	46.0	21.4
0°-60°	2133.1	79.0	36.8
0°-90°	2280.3	84.5	39.3
90°-120°	144.1	5.3	2.5
90°-150°	337.3	12.5	5.8
90°-180°	420.0	15.6	7.2
0°-180°	2699.8	100.0	46.5

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1000	974	995	992	973	96
15°	947	944	918	938	936	267
25°	877	862	877	855	886	395
35°	744	754	750	797	804	465
45°	604	614	648	685	696	469
55°	432	462	460	434	445	365
65°	47	64	115	145	131	86
75°	6	9	13	12	7	7
85°	3	4	4	4	2	3
90°	13	10	9	9	6	8
95°	28	26	23	20	18	21
105°	38	52	54	48	38	41
115°	56	64	79	78	67	55
125°	68	68	81	96	86	62
135°	82	86	81	90	81	63
145°	92	92	89	84	79	58
155°	92	100	96	86	88	44
165°	105	111	108	94	95	29
175°	112	115	95	110	117	10
180°	85	85	85	85	85	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1057.2	1057.2	1057.2	1057.2	1057.2
5°	999.7	974.0	994.9	991.9	972.7
10°	1005.2	965.7	972.8	964.4	948.8
15°	947.1	943.5	918.5	938.1	935.6
20°	881.5	912.0	905.0	907.0	888.7
25°	877.4	862.1	877.3	855.3	885.5
30°	783.8	830.6	812.4	820.6	828.4
35°	744.1	753.6	749.9	796.6	803.6
40°	696.0	694.2	709.9	762.9	791.5
45°	603.9	614.1	648.4	685.2	695.8
50°	526.1	542.0	583.6	579.8	570.8
55°	432.0	462.3	460.2	433.5	445.4
60°	247.4	281.7	302.9	303.7	328.8
65°	47.2	64.4	114.6	145.2	130.9
70°	10.4	16.6	25.5	31.6	21.0
75°	5.5	9.3	12.6	11.9	7.4
80°	3.6	5.9	7.6	5.8	2.7
85°	3.2	3.7	4.5	4.1	1.9
90°	12.6	10.4	8.9	8.9	5.8
95°	27.8	25.7	23.3	20.5	17.5
100°	31.1	40.6	37.0	31.9	28.6
105°	37.7	52.5	53.8	47.9	37.8
110°	48.3	55.7	67.8	64.4	53.0
115°	56.0	64.4	79.3	77.5	67.0
120°	63.4	66.5	87.1	88.6	77.7
125°	68.3	67.9	80.7	95.9	85.8
130°	74.7	74.8	85.4	92.8	87.4
135°	81.5	85.5	81.4	90.2	80.9
140°	87.3	89.5	90.0	83.1	79.1
145°	92.5	92.5	89.1	84.1	78.8
150°	96.8	98.5	92.5	82.4	80.5
155°	91.8	100.3	95.6	86.2	87.8
160°	99.5	105.4	102.0	100.6	87.0
165°	104.7	111.2	108.4	94.4	94.8
170°	96.4	88.0	109.6	107.8	96.7
175°	111.8	115.2	94.6	109.9	116.8
180°	85.0	85.0	85.0	85.0	85.0

(END OF REPORT)