

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: 89310

Luminaire Tested: **VB-SB-1T5-DL-2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89310
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VB-SB-1T5-DL-2
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 LAMP
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

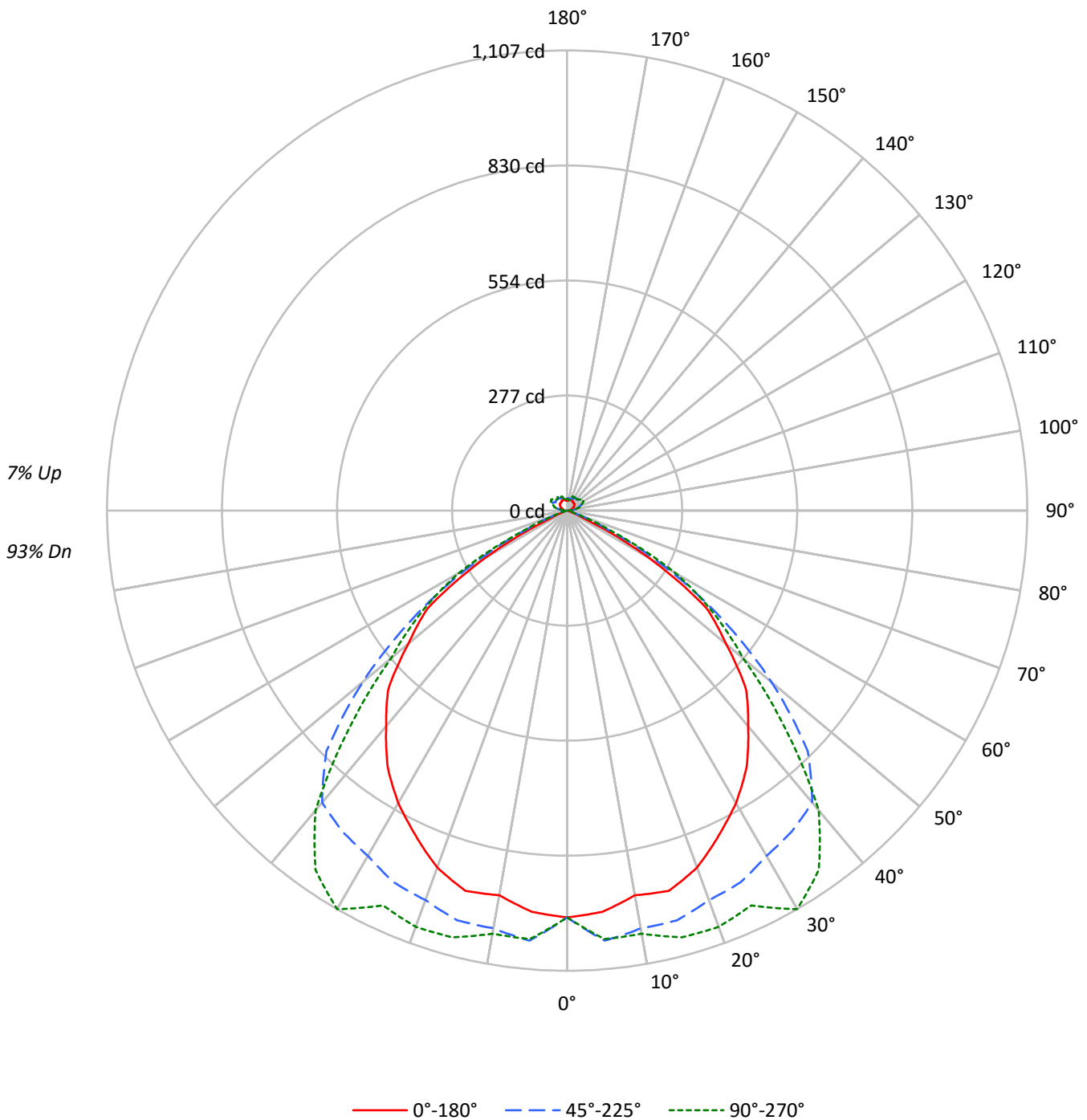
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2688.8 lumens
Efficiency: 59.8%
Efficacy: 45.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Direct

Input Watts (W): 59
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	70	70	70	70	68	68	68	68	64	64	64	61	61	61	57	57	57	56
1	65	63	61	59	64	62	60	58	58	57	56	55	54	53	53	52	51	50
2	61	57	53	50	59	55	52	49	52	50	48	50	48	46	48	46	45	43
3	56	50	46	43	54	49	45	42	47	44	41	45	42	40	43	41	39	38
4	51	45	41	37	50	44	40	37	42	39	36	41	37	35	39	36	34	33
5	48	41	36	32	46	40	35	32	38	34	31	37	33	31	35	32	30	29
6	44	37	32	28	43	36	31	28	35	31	28	33	30	27	32	29	27	25
7	41	33	29	25	40	33	28	25	32	28	25	30	27	24	29	26	24	23
8	38	30	26	23	37	30	25	22	29	25	22	28	24	22	27	24	21	20
9	35	28	23	20	34	27	23	20	27	23	20	26	22	20	25	22	19	18
10	33	26	21	18	32	25	21	18	24	21	18	24	20	18	23	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4562	4562	4562
5°	4502	4670	4610
10°	4385	4465	4441
15°	4471	4379	4445
20°	4402	4230	4370
25°	4273	4171	4249
30°	4174	4069	4472
35°	4052	4044	4280
40°	3856	4012	3863
45°	3710	3684	3105
50°	3295	2994	2377
55°	2977	2220	1916
60°	1846	1412	1407
65°	388	589	602
70°	114	160	108
75°	74	87	38
80°	49	56	16
85°	58	30	9



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	95.1	3.5	2.1
10°-20°	283.7	10.6	6.3
20°-30°	452.2	16.8	10.0
30°-40°	578.2	21.5	12.8
40°-50°	568.1	21.1	12.6
50°-60°	396.2	14.7	8.8
60°-70°	121.1	4.5	2.7
70°-80°	12.6	0.5	0.3
80°-90°	4.1	0.2	0.1
90°-100°	13.5	0.5	0.3
100°-110°	26.3	1.0	0.6
110°-120°	32.7	1.2	0.7
120°-130°	31.8	1.2	0.7
130°-140°	25.9	1.0	0.6
140°-150°	21.4	0.8	0.5
150°-160°	14.8	0.6	0.3
160°-170°	8.5	0.3	0.2
170°-180°	2.7	0.1	0.1
0°-30°	831.0	30.9	18.5
0°-40°	1409.2	52.4	31.3
0°-60°	2373.5	88.3	52.7
0°-90°	2511.2	93.4	55.8
90°-120°	72.5	2.7	1.6
90°-150°	151.6	5.6	3.4
90°-180°	178.0	6.6	4.0
0°-180°	2688.8	100.0	59.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	969	978	1039	987	1035	92
15°	947	959	1020	1042	1063	265
25°	863	936	987	1031	1048	398
35°	753	826	942	1056	1055	469
45°	609	717	819	767	742	462
55°	409	505	455	426	430	344
65°	41	60	107	135	122	78
75°	5	10	13	11	7	6
85°	2	3	4	3	1	2
90°	6	5	4	4	2	4
95°	13	18	13	10	8	8
105°	10	23	27	32	31	11
115°	17	25	40	40	40	16
125°	21	26	34	50	47	19
135°	24	28	37	38	38	18
145°	25	29	36	42	40	16
155°	27	31	35	34	36	12
165°	29	32	29	32	28	8
175°	23	29	30	27	27	2
180°	28	28	28	28	28	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.5	978.5	978.5	978.5	978.5
5°	969.0	978.5	1038.6	986.7	1034.6
10°	939.8	966.4	1020.5	1005.4	1033.4
15°	946.8	959.3	1020.4	1042.0	1063.0
20°	913.9	949.7	997.2	1044.4	1065.6
25°	862.7	936.2	986.9	1030.7	1047.9
30°	812.2	877.3	959.0	1049.4	1107.1
35°	753.0	826.3	942.2	1055.8	1055.4
40°	677.4	783.9	916.9	937.7	941.7
45°	609.1	717.2	819.0	767.4	742.3
50°	498.9	644.5	641.9	565.2	552.7
55°	409.4	505.4	454.9	426.2	429.8
60°	226.3	283.0	273.6	293.9	301.4
65°	41.4	60.1	106.8	135.1	122.0
70°	10.3	17.3	26.7	31.5	20.5
75°	5.4	9.6	13.3	11.2	6.7
80°	2.7	5.2	7.6	5.1	2.5
85°	2.1	2.7	3.6	2.8	1.3
90°	5.9	5.3	4.4	3.7	2.4
95°	13.4	17.9	12.7	10.3	8.3
100°	10.7	21.0	22.3	19.7	19.0
105°	10.5	22.9	27.3	31.5	31.4
110°	10.9	23.5	33.2	34.8	34.7
115°	16.8	25.1	39.7	40.5	40.4
120°	18.5	26.0	38.9	49.4	45.0
125°	20.8	25.7	34.4	50.0	46.8
130°	22.9	26.6	35.4	39.6	41.4
135°	23.7	27.6	36.7	37.5	38.0
140°	23.8	30.2	35.8	40.3	35.4
145°	24.9	29.1	36.3	41.5	40.0
150°	25.9	29.5	33.3	35.9	35.5
155°	27.3	30.9	34.8	33.8	36.1
160°	26.6	28.4	30.1	30.5	36.0
165°	28.7	32.0	29.3	32.5	28.2
170°	27.0	28.8	28.7	27.1	25.1
175°	23.4	29.3	30.0	26.6	27.0
180°	28.4	28.4	28.4	28.4	28.4

(END OF REPORT)