

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: 89305

Luminaire Tested: **VB-SB-1T5-DL-7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89305
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VB-SB-1T5-DL-7
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

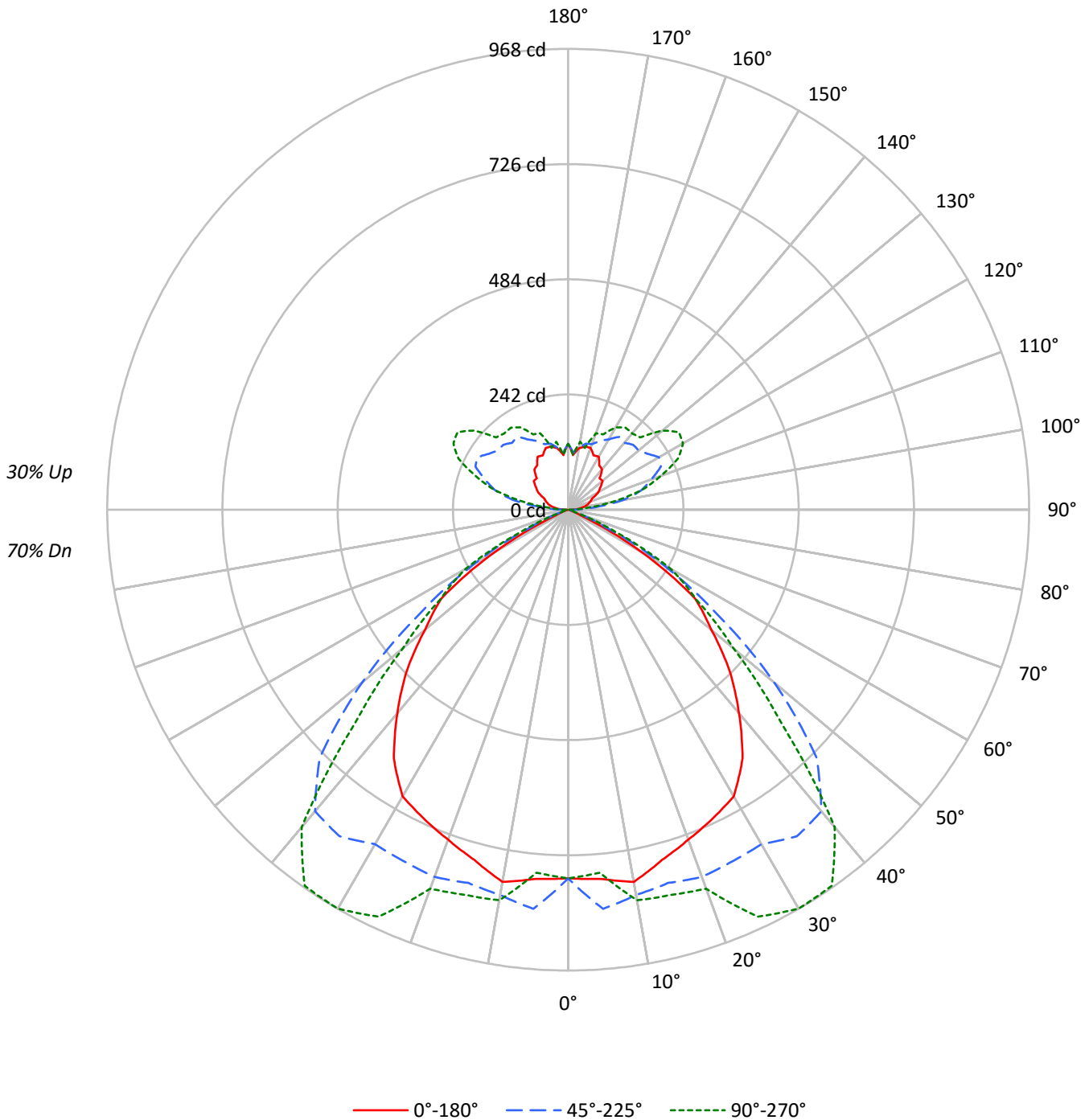
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 3054.8 lumens
Efficiency: 67.9%
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.68 / 1.56
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

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	76	76	76	76	72	72	72	72	64	64	64		57	57	57		51	51	51	47
1	70	68	66	63	67	64	62	61	58	56	55		52	51	50		46	46	45	42
2	65	60	56	53	61	57	54	51	52	49	47		47	45	43		42	40	39	37
3	60	54	49	45	56	51	47	44	46	43	40		42	39	37		38	36	34	32
4	55	48	43	39	52	46	41	37	41	38	35		38	35	32		34	32	30	28
5	51	43	38	34	48	41	36	33	37	33	30		34	31	28		31	28	26	24
6	47	39	33	29	44	37	32	28	34	30	27		31	27	25		28	25	23	21
7	43	35	30	26	41	33	29	25	31	27	24		28	25	22		26	23	21	19
8	40	32	27	23	38	30	26	22	28	24	21		26	22	20		23	21	18	17
9	37	29	24	21	35	28	23	20	26	22	19		24	20	18		22	19	17	15
10	35	27	22	18	33	26	21	18	24	20	17		22	18	16		20	17	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3610	3610	3610
5°	3617	3785	3410
10°	3705	3595	3580
15°	3597	3483	3501
20°	3552	3482	3474
25°	3548	3445	3824
30°	3572	3441	3909
35°	3434	3593	3911
40°	3176	3618	3571
45°	2922	3319	2641
50°	2590	2638	1948
55°	2364	1853	1462
60°	1455	1174	1165
65°	304	477	535
70°	102	139	88
75°	61	75	30
80°	42	49	13
85°	50	37	12



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	76.6	2.5	1.7
10°-20°	229.0	7.5	5.1
20°-30°	380.0	12.4	8.4
30°-40°	508.7	16.7	11.3
40°-50°	494.2	16.2	11.0
50°-60°	330.0	10.8	7.3
60°-70°	101.3	3.3	2.3
70°-80°	10.8	0.4	0.2
80°-90°	5.2	0.2	0.1
90°-100°	53.9	1.8	1.2
100°-110°	140.9	4.6	3.1
110°-120°	178.6	5.8	4.0
120°-130°	175.8	5.8	3.9
130°-140°	136.5	4.5	3.0
140°-150°	107.2	3.5	2.4
150°-160°	72.9	2.4	1.6
160°-170°	40.4	1.3	0.9
170°-180°	12.8	0.4	0.3
0°-30°	685.5	22.4	15.2
0°-40°	1194.2	39.1	26.5
0°-60°	2018.5	66.1	44.9
0°-90°	2135.8	69.9	47.5
90°-120°	373.4	12.2	8.3
90°-150°	792.9	26.0	17.6
90°-180°	919.0	30.1	20.4
0°-180°	3054.8	100.0	67.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	778	794	842	825	765	75
15°	762	782	812	838	837	216
25°	716	762	815	884	943	331
35°	638	710	837	944	964	396
45°	480	618	738	670	631	368
55°	325	434	380	351	328	272
65°	32	52	86	117	108	62
75°	4	8	11	9	5	5
85°	2	2	4	4	2	2
90°	4	7	8	13	6	4
95°	21	52	52	53	33	19
105°	42	111	159	178	160	44
115°	55	129	215	221	254	58
125°	83	138	204	271	284	74
135°	93	136	193	212	214	76
145°	114	136	187	204	210	73
155°	126	148	159	173	175	60
165°	137	139	144	145	134	39
175°	115	143	120	142	116	12
180°	138	138	138	138	138	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.3	774.3	774.3	774.3	774.3
5°	778.4	793.8	841.7	824.7	765.3
10°	793.9	780.3	821.7	799.2	833.1
15°	761.6	781.8	811.6	838.5	837.4
20°	737.5	777.5	820.8	851.8	847.0
25°	716.3	761.7	815.1	883.6	943.2
30°	695.2	736.3	811.1	927.8	967.6
35°	638.3	710.4	837.3	944.5	964.5
40°	557.9	671.4	826.8	864.7	870.5
45°	479.8	617.8	737.9	670.4	631.4
50°	392.2	545.4	565.6	483.2	453.0
55°	325.1	433.7	379.6	350.7	327.8
60°	178.4	235.3	227.4	243.8	249.6
65°	32.4	51.9	86.4	117.1	108.5
70°	9.2	14.1	23.3	28.1	16.6
75°	4.4	8.3	11.4	9.2	5.3
80°	2.3	4.5	6.7	4.5	2.0
85°	1.8	2.4	4.4	4.0	1.7
90°	4.4	7.3	7.8	12.9	6.5
95°	21.3	51.9	51.6	52.7	32.6
100°	32.8	88.8	117.6	122.1	94.2
105°	42.4	111.4	159.4	178.4	159.9
110°	49.2	131.5	185.2	196.6	206.9
115°	55.4	128.9	215.0	220.6	254.4
120°	72.7	138.2	220.2	267.3	278.3
125°	82.6	137.7	204.1	271.3	283.8
130°	94.4	138.8	193.0	231.1	258.7
135°	93.1	136.0	192.9	211.5	214.4
140°	110.6	136.8	183.2	210.9	209.0
145°	113.5	136.3	186.8	203.6	210.2
150°	128.5	138.0	170.5	187.8	199.4
155°	125.9	147.8	159.2	172.9	174.7
160°	138.1	137.2	146.4	155.9	170.7
165°	137.3	138.8	143.5	145.1	134.5
170°	131.1	143.4	132.5	140.4	144.7
175°	115.2	142.9	120.0	141.6	115.9
180°	138.2	138.2	138.2	138.2	138.2

(END OF REPORT)