

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: 89378

Luminaire Tested: **VB-SH-3T5-DUD-1 DOWNLIGHT ONLY**

Issue Date: 3/3/2020

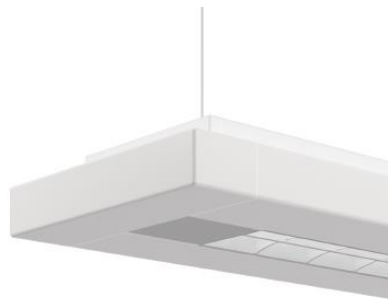
Test Information

Test Method: LM-41-14
Report Number: 89378
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VB-SH-3T5-DUD-1 DOWNLIGHT ONLY
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 (1 lamp)
Luminaire Lumens: 2182.4 lumens
Efficiency: 48.5%
Efficacy: 37.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Indirect

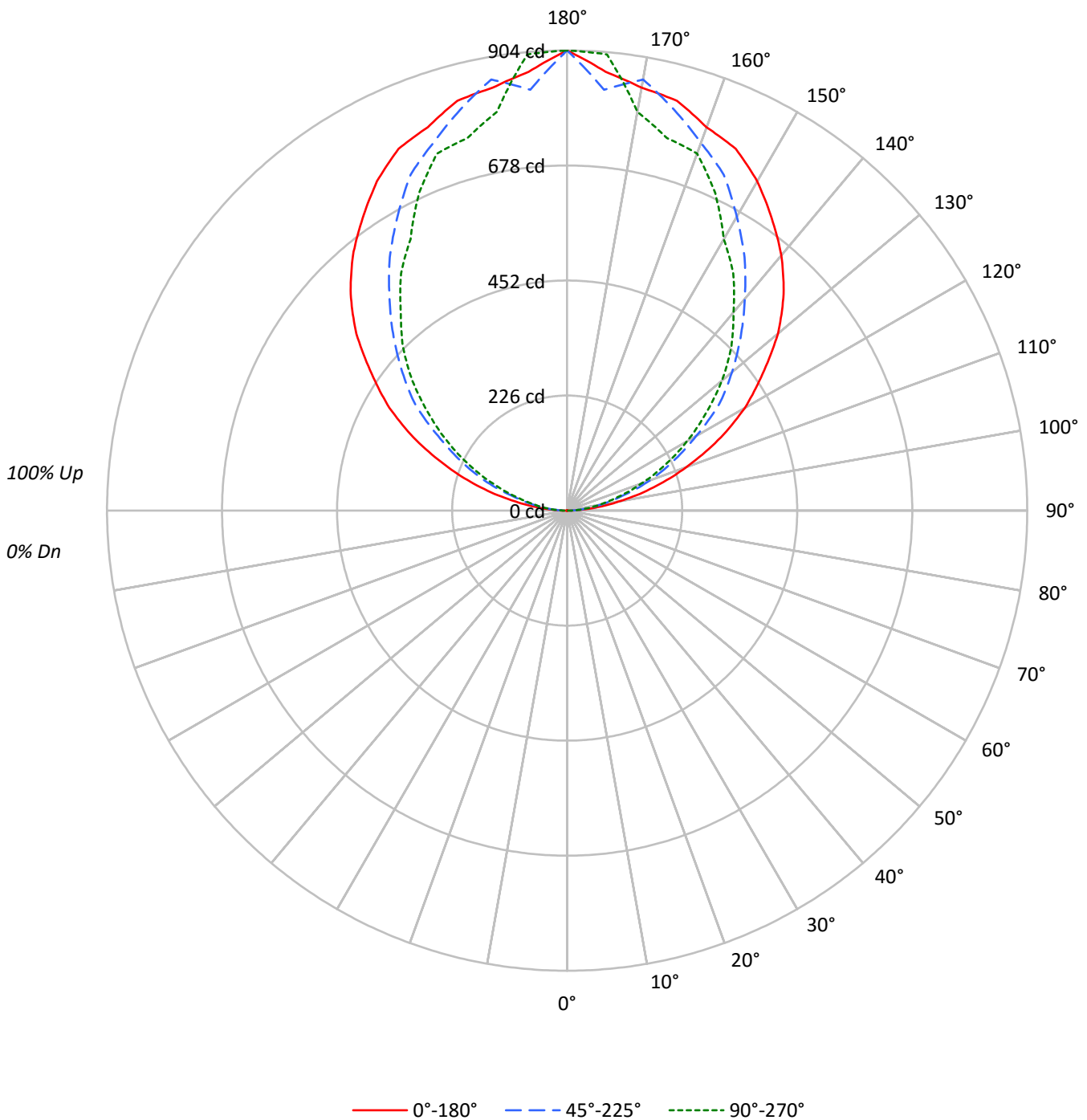
Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	46	46	46	46	39	39	39	39	27	27	27	15	15	15	5	5	5	0	0	0	0
1	42	40	38	37	36	34	33	32	23	23	22	13	13	13	4	4	4	0	0	0	0
2	38	35	32	30	33	30	28	26	20	19	18	12	11	11	4	4	3	0	0	0	0
3	35	31	27	25	30	26	24	22	18	16	15	10	10	9	3	3	3	0	0	0	0
4	32	27	23	21	27	23	20	18	16	14	13	9	8	8	3	3	2	0	0	0	0
5	29	24	20	18	25	20	18	15	14	12	11	8	7	6	3	2	2	0	0	0	0
6	27	21	18	15	23	18	15	13	13	11	9	7	6	6	2	2	2	0	0	0	0
7	24	19	15	13	21	16	13	11	11	9	8	7	6	5	2	2	2	0	0	0	0
8	23	17	14	11	19	15	12	10	10	8	7	6	5	4	2	2	1	0	0	0	0
9	21	15	12	10	18	13	11	9	9	7	6	5	4	4	2	1	1	0	0	0	0
10	19	14	11	9	17	12	9	8	8	7	5	5	4	3	2	1	1	0	0	0	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	1	0	0
35°	1	0	0
40°	1	0	0
45°	1	0	0
50°	1	0	0
55°	1	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.9	0.0	0.0
90°-100°	38.0	1.7	0.8
100°-110°	133.3	6.1	3.0
110°-120°	244.6	11.2	5.4
120°-130°	338.2	15.5	7.5
130°-140°	389.6	17.9	8.7
140°-150°	389.3	17.8	8.7
150°-160°	336.3	15.4	7.5
160°-170°	229.8	10.5	5.1
170°-180°	82.2	3.8	1.8
0°-30°	0.0	0.0	0.0
0°-40°	0.1	0.0	0.0
0°-60°	0.1	0.0	0.0
0°-90°	1.0	0.0	0.0
90°-120°	415.9	19.1	9.2
90°-150°	1533.1	70.2	34.1
90°-180°	2181.0	99.9	48.5
0°-180°	2182.4	100.0	48.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	3	3	3	3	3	7
95°	43	33	30	28	30	52
105°	176	137	113	108	103	186
115°	327	269	230	217	212	323
125°	468	412	365	336	332	421
135°	602	550	482	460	456	463
145°	701	666	607	572	569	439
155°	784	762	728	687	688	360
165°	833	852	814	806	758	234
175°	865	872	830	866	900	82
180°	904	904	904	904	904	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
5°	0.1	0.1	0.1	0.1	0.1
10°	0.1	0.1	0.1	0.2	0.0
15°	0.1	0.0	0.1	0.1	0.1
20°	0.1	0.0	0.1	0.1	0.0
25°	0.0	0.0	0.0	0.1	0.0
30°	0.1	0.1	0.0	0.0	0.0
35°	0.1	0.1	0.0	0.0	0.0
40°	0.1	0.1	0.0	0.0	0.0
45°	0.1	0.1	0.0	0.0	0.0
50°	0.1	0.1	0.0	0.0	0.0
55°	0.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
90°	3.2	3.3	2.9	3.2	3.4
95°	43.2	32.6	29.7	28.5	29.8
100°	103.8	78.0	67.2	62.9	62.8
105°	175.5	136.8	112.8	108.5	103.0
110°	248.4	199.8	172.5	161.3	155.7
115°	326.9	269.3	229.7	216.8	211.8
120°	403.0	335.8	292.4	280.9	272.1
125°	468.4	412.5	364.7	336.1	332.2
130°	540.4	482.6	422.4	400.9	396.8
135°	601.6	549.8	481.9	460.3	456.4
140°	654.8	611.3	542.7	517.1	508.2
145°	700.7	666.2	607.3	571.7	569.0
150°	747.0	737.8	666.5	648.1	615.5
155°	784.0	762.2	728.1	686.6	688.1
160°	801.2	808.2	768.7	748.0	746.6
165°	833.4	852.3	814.4	805.8	757.6
170°	843.4	848.8	859.9	854.5	795.3
175°	865.3	872.5	829.7	865.6	899.5
180°	903.9	903.9	903.9	903.9	903.9

(END OF REPORT)