

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: 89381

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

Issue Date: 3/3/2020

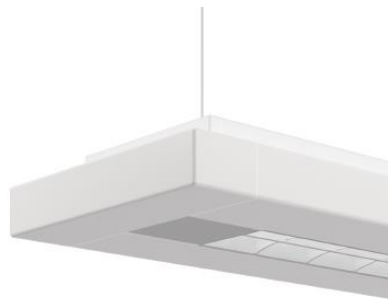
Test Information

Test Method: LM-41-14
Report Number: 89381
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VB-SH-3T5-DXD-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: 2809.2 lumens
Efficiency: 62.4%
Efficacy: 47.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 2.09 / 1.83
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Indirect

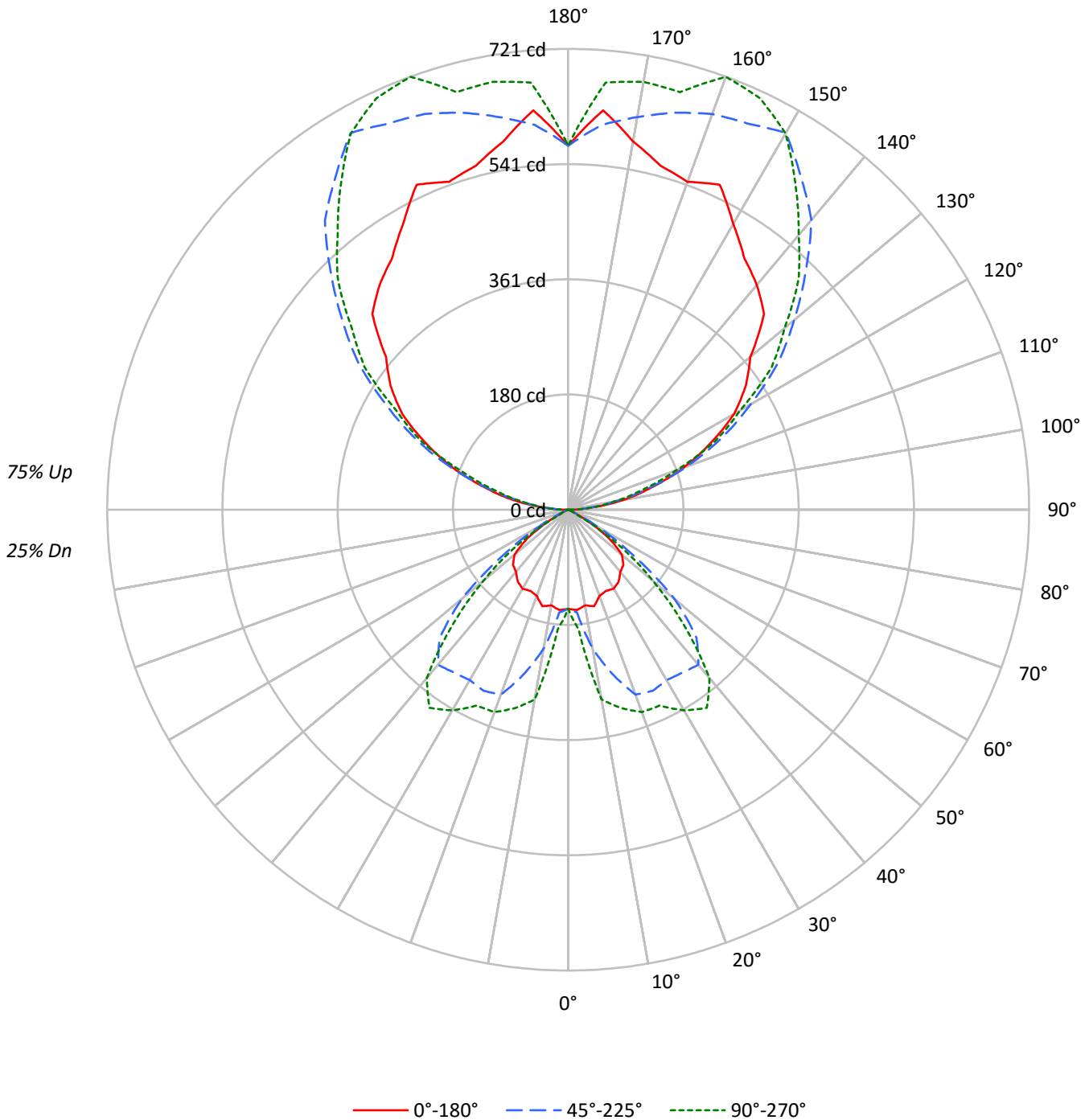
Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	63	63	63	63	56	56	56	56	43	43	43	32	32	32	21	21	21	16
1	58	56	53	51	52	50	48	46	39	37	36	28	28	27	19	19	18	14
2	53	49	45	42	47	44	41	38	34	32	31	25	24	23	17	17	16	12
3	49	43	39	36	43	39	35	32	30	28	26	23	21	20	15	15	14	11
4	44	38	34	30	40	34	30	27	27	24	22	20	18	17	14	13	12	9
5	41	34	29	26	36	31	27	24	24	21	19	18	16	15	13	11	11	8
6	37	30	26	22	33	27	23	20	22	19	17	16	14	13	11	10	9	7
7	35	27	23	19	31	25	21	18	20	17	15	15	13	11	10	9	8	6
8	32	25	20	17	28	22	18	16	18	15	13	13	11	10	9	8	7	6
9	30	22	18	15	26	20	16	14	16	13	11	12	10	9	9	7	7	5
10	28	20	16	13	25	18	15	12	15	12	10	11	9	8	8	7	6	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	730	730	730
5°	738	733	845
10°	715	971	1307
15°	744	1150	1355
20°	696	1318	1394
25°	700	1332	1383
30°	739	1317	1477
35°	746	1347	1548
40°	728	1397	1423
45°	749	1288	1084
50°	729	1021	748
55°	570	609	441
60°	254	267	82
65°	64	62	18
70°	31	21	5
75°	17	14	3
80°	11	9	1
85°	6	5	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	17.9	0.6	0.4
10°-20°	72.3	2.6	1.6
20°-30°	131.9	4.7	2.9
30°-40°	183.8	6.5	4.1
40°-50°	185.6	6.6	4.1
50°-60°	101.9	3.6	2.3
60°-70°	14.9	0.5	0.3
70°-80°	1.7	0.1	0.0
80°-90°	1.3	0.0	0.0
90°-100°	41.1	1.5	0.9
100°-110°	143.2	5.1	3.2
110°-120°	260.7	9.3	5.8
120°-130°	349.8	12.5	7.8
130°-140°	389.5	13.9	8.7
140°-150°	373.5	13.3	8.3
150°-160°	300.5	10.7	6.7
160°-170°	181.3	6.5	4.0
170°-180°	58.3	2.1	1.3
0°-30°	222.1	7.9	4.9
0°-40°	405.9	14.4	9.0
0°-60°	693.4	24.7	15.4
0°-90°	711.3	25.3	15.8
90°-120°	445.0	15.8	9.9
90°-150°	1557.8	55.5	34.6
90°-180°	2098.0	74.7	46.6
0°-180°	2809.2	100.0	62.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	155	155	155	155	155	
5°	158	165	162	189	188	15
15°	156	195	266	332	321	43
25°	140	248	312	342	338	65
35°	137	253	311	364	378	85
45°	122	233	284	272	257	93
55°	78	147	124	101	98	66
65°	7	12	11	5	4	12
75°	1	2	2	1	1	2
85°	0	0	1	0	0	0
90°	3	4	4	3	4	6
95°	35	35	33	33	35	44
105°	135	149	131	125	120	145
115°	245	289	264	255	253	243
125°	339	428	401	382	388	302
135°	433	522	525	507	510	328
145°	480	568	635	630	620	303
155°	561	597	666	724	710	252
165°	557	627	643	669	676	159
175°	627	577	604	605	671	58
180°	570	570	570	570	570	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	155.1	155.1	155.1	155.1	155.1
5°	157.5	165.4	161.5	188.6	187.9
10°	151.9	153.5	220.0	271.1	301.4
15°	156.2	194.8	265.7	332.5	321.3
20°	143.3	227.6	307.9	332.8	336.9
25°	140.1	247.7	312.5	341.5	338.1
30°	142.5	262.8	307.7	341.3	362.5
35°	137.4	252.6	311.1	364.1	378.3
40°	126.8	243.8	316.6	351.8	343.8
45°	121.9	232.7	283.8	271.7	256.9
50°	109.5	209.2	217.0	182.6	172.4
55°	77.7	146.6	123.7	100.9	98.0
60°	30.9	62.0	51.3	29.1	17.4
65°	6.8	11.7	11.1	4.6	3.6
70°	2.8	3.6	3.5	1.8	1.0
75°	1.2	2.1	2.1	1.0	0.6
80°	0.6	0.9	1.2	0.5	0.1
85°	0.2	0.3	0.6	0.2	0.0
90°	3.4	3.5	3.7	3.4	3.5
95°	34.9	35.1	32.8	32.9	35.0
100°	87.7	86.5	75.3	75.5	73.0
105°	135.1	149.2	130.7	124.8	120.1
110°	191.9	222.1	197.4	184.0	178.8
115°	245.1	289.1	264.0	255.0	253.3
120°	299.6	359.6	329.2	316.2	310.3
125°	339.2	427.5	400.8	381.8	388.3
130°	371.9	485.5	461.0	442.7	441.5
135°	433.2	521.6	525.0	507.3	509.5
140°	458.9	556.3	591.8	561.2	561.0
145°	480.2	568.4	634.8	630.4	620.1
150°	516.2	588.3	680.7	678.6	679.7
155°	561.0	597.1	666.4	724.3	710.1
160°	545.8	614.7	658.7	692.3	720.7
165°	557.2	626.9	643.0	669.2	676.3
170°	584.9	598.3	623.8	656.3	679.7
175°	627.2	577.2	604.4	604.8	670.8
180°	569.5	569.5	569.5	569.5	569.5

(END OF REPORT)