

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: 89083

Luminaire Tested: **E2-SB-1T5-DL-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89083
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-1T5-DL-1
Description: CORELITE ELEMENT 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

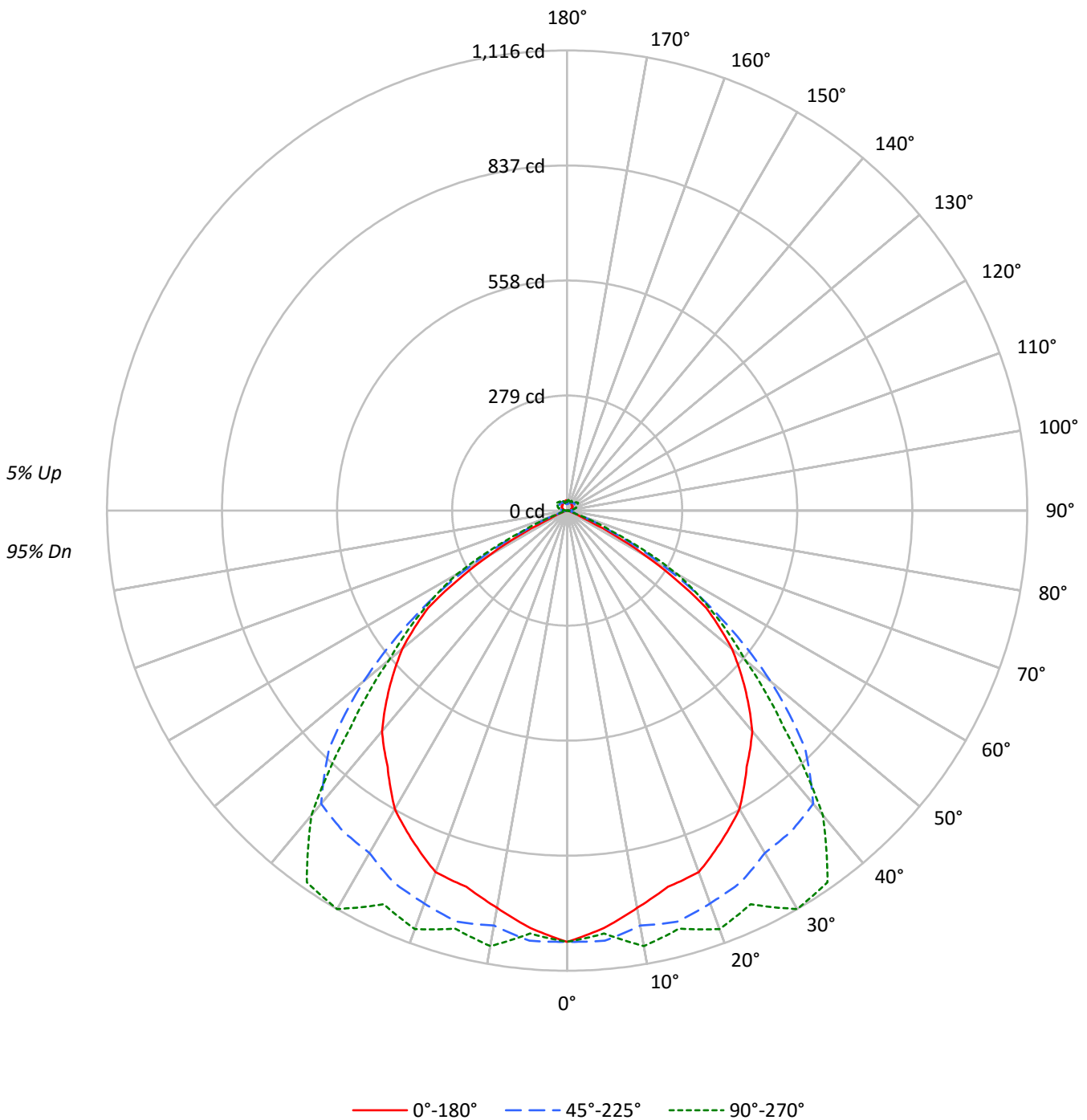
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2663.9 lumens
Efficiency: 59.2%
Efficacy: 45.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.52 / 1.46
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Direct

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																		
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	50	30	10	50	30	10	0																			
RCR																																														
0	70	70	70	70	68	68	68	68	64	64	64	61	61	61	58	58	58	56									56																			
1	65	63	61	59	63	61	60	58	58	57	56	56	55	53	53	52	51	50									50																			
2	60	56	53	50	59	55	52	49	52	50	48	50	48	46	48	46	45	44									44																			
3	56	50	46	43	54	49	45	42	47	44	41	45	43	40	43	41	39	38									38																			
4	51	45	41	37	50	44	40	37	42	39	36	41	38	35	39	37	34	33									33																			
5	47	41	36	32	46	40	35	32	38	34	31	37	34	31	36	33	30	29									29																			
6	44	37	32	28	43	36	31	28	35	31	28	33	30	27	32	29	27	26									26																			
7	41	33	29	25	40	33	28	25	32	28	25	31	27	24	30	26	24	23									23																			
8	38	30	26	23	37	30	25	22	29	25	22	28	24	22	27	24	22	20									20																			
9	35	28	23	20	34	27	23	20	27	23	20	26	22	20	25	22	19	18									18																			
10	33	26	21	18	32	25	21	18	25	21	18	24	20	18	23	20	18	17									17																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4876	4876	4876
5°	4723	4708	4588
10°	4565	4472	4609
15°	4460	4429	4388
20°	4495	4301	4430
25°	4383	4206	4270
30°	4296	4068	4507
35°	4085	4071	4463
40°	3976	4062	3958
45°	3716	3671	3107
50°	3444	3006	2423
55°	2993	2231	1932
60°	1819	1432	1442
65°	403	608	619
70°	119	161	111
75°	70	89	38
80°	53	55	16
85°	52	31	8



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	97.7	3.7	2.2
10°-20°	285.5	10.7	6.3
20°-30°	456.9	17.2	10.2
30°-40°	585.6	22.0	13.0
40°-50°	573.4	21.5	12.7
50°-60°	400.0	15.0	8.9
60°-70°	122.5	4.6	2.7
70°-80°	12.8	0.5	0.3
80°-90°	4.0	0.1	0.1
90°-100°	11.3	0.4	0.3
100°-110°	18.9	0.7	0.4
110°-120°	22.0	0.8	0.5
120°-130°	22.0	0.8	0.5
130°-140°	18.2	0.7	0.4
140°-150°	14.5	0.5	0.3
150°-160°	10.3	0.4	0.2
160°-170°	6.0	0.2	0.1
170°-180°	2.0	0.1	0.0
0°-30°	840.2	31.5	18.7
0°-40°	1425.8	53.5	31.7
0°-60°	2399.2	90.1	53.3
0°-90°	2538.5	95.3	56.4
90°-120°	52.2	2.0	1.2
90°-150°	107.0	4.0	2.4
90°-180°	125.0	4.7	2.8
0°-180°	2663.9	100.0	59.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1016	990	1047	1032	1030	96
15°	944	960	1032	1016	1050	269
25°	885	929	995	1043	1053	408
35°	759	840	948	1047	1101	478
45°	610	725	816	769	743	471
55°	412	513	457	429	433	350
65°	43	63	110	135	126	78
75°	5	10	14	11	7	6
85°	2	3	4	3	1	2
90°	6	5	4	3	2	4
95°	13	18	11	7	6	8
105°	10	18	21	20	20	11
115°	14	18	26	26	25	13
125°	16	18	24	32	32	14
135°	17	21	25	25	28	13
145°	19	23	22	26	26	12
155°	19	22	21	25	26	9
165°	22	22	21	22	18	6
175°	25	20	16	25	26	2
180°	21	21	21	21	21	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045.9	1045.9	1045.9	1045.9	1045.9
5°	1016.5	990.3	1047.0	1031.5	1029.7
10°	978.3	990.1	1022.1	1033.1	1072.4
15°	944.5	960.2	1032.2	1016.5	1049.6
20°	933.1	953.4	1013.9	1065.2	1080.1
25°	884.9	928.8	995.2	1043.4	1053.2
30°	836.0	904.0	958.9	1058.1	1115.7
35°	759.2	839.5	948.5	1046.8	1100.6
40°	698.5	792.9	928.4	959.5	964.7
45°	610.1	725.2	816.2	768.9	742.8
50°	521.5	646.0	644.5	576.6	563.6
55°	411.6	513.1	457.1	429.2	433.3
60°	223.0	280.3	277.5	295.9	308.9
65°	43.0	63.0	110.2	135.2	125.5
70°	10.7	17.0	27.0	31.4	21.1
75°	5.1	10.1	13.5	11.2	6.7
80°	2.9	5.6	7.5	5.3	2.5
85°	1.9	2.7	3.7	2.6	1.2
90°	5.7	5.4	3.7	3.1	1.8
95°	12.6	17.6	11.1	7.1	5.9
100°	11.4	18.5	16.1	13.6	13.1
105°	9.8	17.8	20.7	20.2	20.0
110°	10.2	17.3	21.3	22.7	24.4
115°	13.5	18.0	25.8	26.0	24.9
120°	14.3	18.9	26.7	31.1	27.9
125°	16.4	18.5	24.4	32.3	32.3
130°	17.2	20.8	23.0	27.7	30.4
135°	16.6	21.4	25.1	25.0	27.9
140°	16.9	20.6	24.5	26.2	28.7
145°	18.7	22.6	22.4	25.9	25.6
150°	20.3	19.5	24.3	23.0	23.5
155°	19.3	22.2	21.2	25.4	26.0
160°	22.3	19.9	19.6	22.3	23.0
165°	22.5	21.6	20.9	21.9	18.5
170°	24.0	21.3	20.7	20.9	25.0
175°	25.1	19.6	15.5	25.1	25.5
180°	20.7	20.7	20.7	20.7	20.7

(END OF REPORT)