

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: 89251

Luminaire Tested: **E2-SB-2T5-DL-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89251
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-2T5-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 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

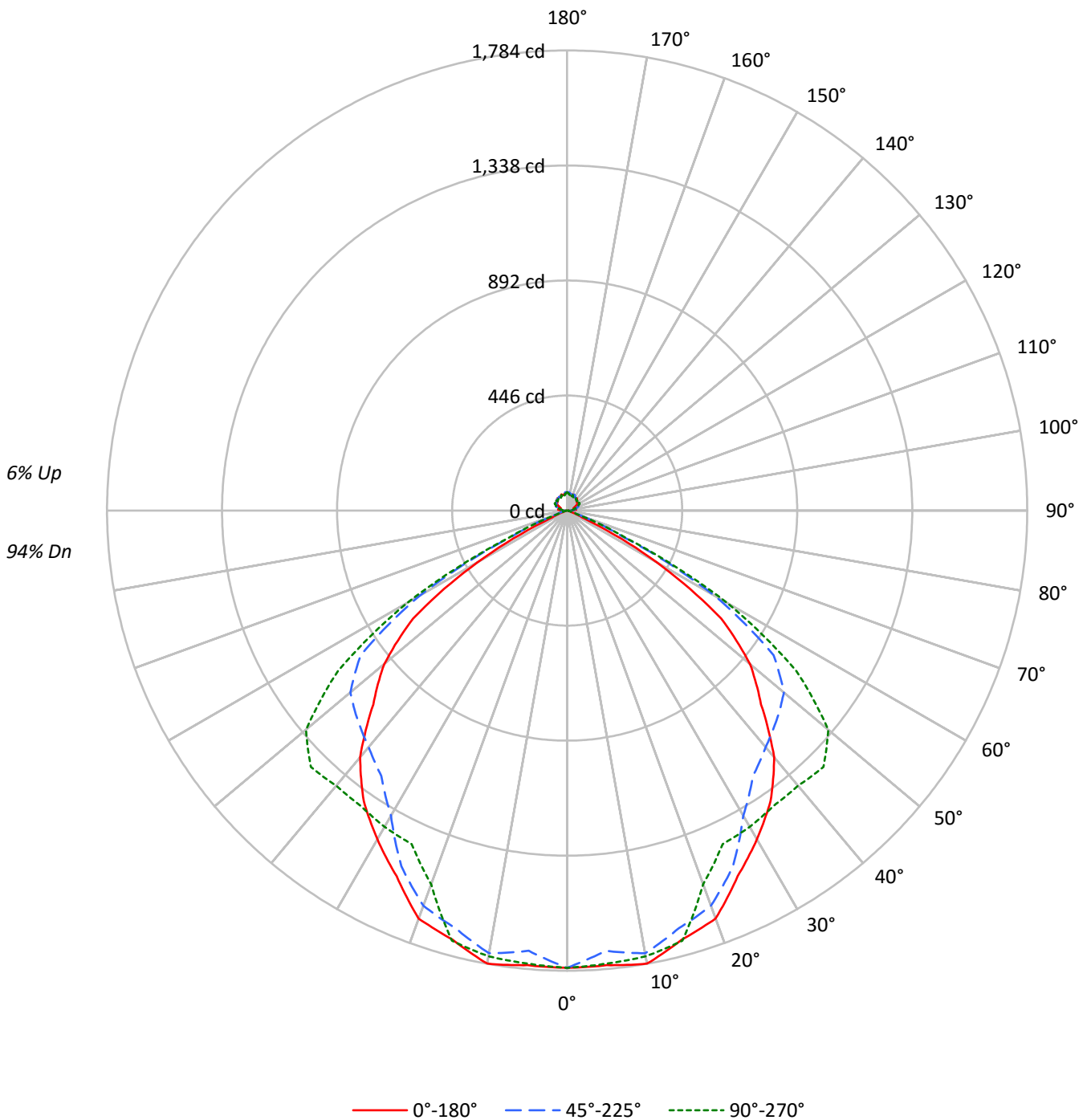
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 4466.8 lumens
Efficiency: 49.6%
Efficacy: 37.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Direct

Input Watts (W): 118
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	58	58	58	58	57	57	57	57	53	53	53		50	50	50		48	48	48	46
1	54	52	51	49	53	51	49	48	48	47	46		46	45	44		44	43	42	41
2	50	47	44	41	49	45	43	41	43	41	39		41	39	38		39	38	37	35
3	46	41	38	35	45	40	37	35	39	36	34		37	35	33		35	33	32	31
4	42	37	33	30	41	36	33	30	35	31	29		33	30	28		32	29	28	27
5	39	33	29	26	38	32	29	26	31	28	25		30	27	25		29	26	24	23
6	36	30	26	23	35	29	26	23	28	25	22		27	24	22		26	23	21	20
7	33	27	23	20	32	27	23	20	26	22	20		25	22	19		24	21	19	18
8	31	25	21	18	30	24	21	18	23	20	18		23	20	17		22	19	17	16
9	29	23	19	16	28	22	19	16	22	18	16		21	18	16		20	17	15	15
10	27	21	17	15	26	21	17	15	20	17	14		19	16	14		19	16	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8264	8264	8264
5°	8221	7704	7855
10°	8323	7626	7541
15°	8129	7191	7218
20°	8108	6917	6323
25°	7747	6428	5784
30°	7562	5795	5720
35°	7399	5390	5664
40°	7108	5239	5714
45°	6475	5166	5879
50°	6113	5116	5682
55°	5299	4770	4841
60°	3266	3407	3354
65°	672	1297	1234
70°	194	284	216
75°	117	155	84
80°	77	102	40
85°	83	56	17



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	167.8	3.8	1.9
10°-20°	477.5	10.7	5.3
20°-30°	694.2	15.5	7.7
30°-40°	834.9	18.7	9.3
40°-50°	915.9	20.5	10.2
50°-60°	798.0	17.9	8.9
60°-70°	257.7	5.8	2.9
70°-80°	23.5	0.5	0.3
80°-90°	8.2	0.2	0.1
90°-100°	25.8	0.6	0.3
100°-110°	38.7	0.9	0.4
110°-120°	45.0	1.0	0.5
120°-130°	46.5	1.0	0.5
130°-140°	43.2	1.0	0.5
140°-150°	36.9	0.8	0.4
150°-160°	28.9	0.6	0.3
160°-170°	17.8	0.4	0.2
170°-180°	6.1	0.1	0.1
0°-30°	1339.6	30.0	14.9
0°-40°	2174.5	48.7	24.2
0°-60°	3888.4	87.0	43.2
0°-90°	4177.8	93.5	46.4
90°-120°	109.6	2.5	1.2
90°-150°	236.2	5.3	2.6
90°-180°	289.0	6.5	3.2
0°-180°	4466.8	100.0	49.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1773	1773	1773	1773	1773	
5°	1769	1793	1713	1742	1763	169
15°	1722	1701	1676	1653	1726	489
25°	1564	1535	1521	1420	1426	725
35°	1375	1305	1256	1363	1397	857
45°	1063	1046	1149	1316	1406	830
55°	729	792	977	1048	1086	621
65°	72	123	235	285	250	137
75°	8	16	24	23	15	10
85°	3	5	7	6	2	4
90°	15	14	10	7	5	9
95°	36	40	24	16	11	24
105°	32	38	36	38	33	32
115°	34	40	49	53	48	34
125°	50	49	52	58	54	43
135°	51	57	56	59	52	41
145°	60	56	59	57	59	38
155°	59	61	68	62	55	28
165°	62	66	64	60	54	18
175°	70	61	72	56	66	6
180°	71	71	71	71	71	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1772.6	1772.6	1772.6	1772.6	1772.6
5°	1769.3	1792.9	1713.3	1742.3	1763.0
10°	1783.7	1754.1	1743.1	1772.5	1754.8
15°	1721.5	1701.3	1675.8	1653.0	1726.3
20°	1683.3	1650.0	1630.6	1601.0	1541.8
25°	1564.0	1535.0	1521.1	1420.5	1426.5
30°	1471.6	1455.0	1366.0	1375.3	1415.9
35°	1375.2	1305.2	1256.0	1362.7	1396.6
40°	1248.7	1186.8	1197.2	1337.1	1392.9
45°	1063.0	1045.5	1148.6	1315.6	1405.5
50°	925.7	911.1	1097.0	1288.5	1321.5
55°	728.8	792.4	977.2	1047.5	1085.7
60°	400.3	516.1	660.1	687.8	718.8
65°	71.7	122.6	235.1	285.0	250.1
70°	17.5	29.9	47.5	62.5	40.9
75°	8.5	16.4	23.5	22.8	14.7
80°	4.2	9.1	13.8	11.5	6.3
85°	3.0	5.1	6.6	5.7	2.4
90°	14.7	13.7	9.9	7.3	4.7
95°	35.7	40.4	24.3	16.4	11.2
100°	32.6	40.9	32.4	26.4	26.8
105°	31.6	38.3	36.4	38.4	32.8
110°	26.4	39.7	45.4	45.6	44.4
115°	33.5	39.9	49.2	52.6	47.9
120°	42.3	42.8	48.1	55.4	56.0
125°	50.0	48.6	51.5	58.2	54.1
130°	50.0	47.5	54.0	56.8	60.2
135°	51.0	56.7	56.3	58.7	52.5
140°	60.4	60.0	58.0	57.8	54.5
145°	59.8	55.8	58.8	57.3	59.1
150°	59.8	62.8	60.6	61.6	59.6
155°	59.3	61.0	68.2	62.2	55.2
160°	66.3	65.4	65.8	63.6	64.1
165°	61.8	66.3	64.3	60.4	53.5
170°	64.2	63.3	66.6	52.7	59.2
175°	70.0	60.7	72.0	56.4	66.5
180°	70.6	70.6	70.6	70.6	70.6

(END OF REPORT)