

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: 89084

Luminaire Tested: **E2-SB-2T5-DL-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89084
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-2T5-DL-8
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

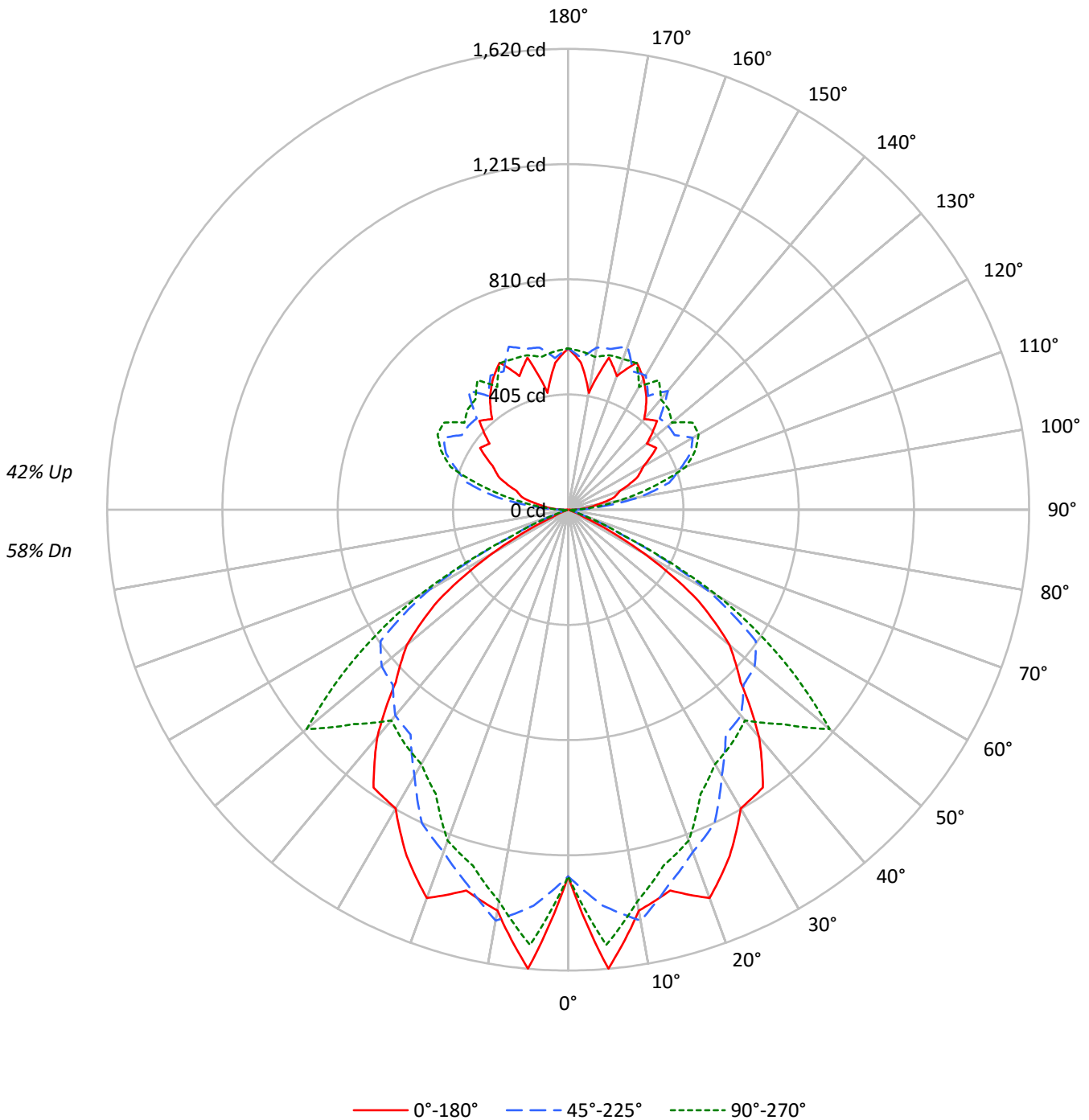
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 5807.4 lumens
Efficiency: 64.5%
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.21 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: General Diffuse

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	70	70	70	70	66	66	66	66	57	57	57	49	49	49	41	41	41	38
1	65	62	60	58	61	58	56	55	51	49	48	44	43	42	37	37	36	33
2	60	55	52	48	56	52	49	46	45	43	41	39	37	36	34	32	31	29
3	55	49	44	41	51	46	42	39	40	37	35	35	33	31	30	28	27	25
4	50	43	39	35	47	41	36	33	36	33	30	31	29	27	27	25	24	21
5	46	39	34	30	43	37	32	29	32	29	26	28	25	23	24	22	21	19
6	43	35	30	26	40	33	28	25	29	25	23	26	23	20	22	20	18	16
7	39	32	26	23	37	30	25	22	26	23	20	23	20	18	20	18	16	15
8	37	29	24	20	34	27	23	19	24	20	18	21	18	16	19	16	14	13
9	34	26	21	18	32	25	20	17	22	18	16	20	17	15	17	15	13	12
10	32	24	19	16	30	23	19	16	20	17	14	18	15	13	16	14	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6008	6008	6008
5°	7525	6282	6844
10°	6677	6418	6011
15°	6545	5859	5415
20°	6998	5432	5078
25°	6653	5139	4468
30°	6232	4582	4171
35°	6416	4143	4067
40°	5941	4134	3966
45°	5217	3919	4458
50°	4881	3992	5158
55°	4062	3929	4110
60°	2525	2918	2868
65°	560	1161	1055
70°	141	243	201
75°	96	124	69
80°	86	77	32
85°	66	69	30



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	140.0	2.4	1.6
10°-20°	392.0	6.7	4.4
20°-30°	560.6	9.7	6.2
30°-40°	654.9	11.3	7.3
40°-50°	719.5	12.4	8.0
50°-60°	660.6	11.4	7.3
60°-70°	220.0	3.8	2.4
70°-80°	20.0	0.3	0.2
80°-90°	11.5	0.2	0.1
90°-100°	119.8	2.1	1.3
100°-110°	315.1	5.4	3.5
110°-120°	417.7	7.2	4.6
120°-130°	418.8	7.2	4.7
130°-140°	372.7	6.4	4.1
140°-150°	320.3	5.5	3.6
150°-160°	251.2	4.3	2.8
160°-170°	159.9	2.8	1.8
170°-180°	53.0	0.9	0.6
0°-30°	1092.6	18.8	12.1
0°-40°	1747.4	30.1	19.4
0°-60°	3127.4	53.9	34.7
0°-90°	3379.0	58.2	37.5
90°-120°	852.6	14.7	9.5
90°-150°	1964.4	33.8	21.8
90°-180°	2428.0	41.8	27.0
0°-180°	5807.4	100.0	64.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1620	1583	1397	1592	1536	144
15°	1386	1444	1365	1454	1295	401
25°	1343	1343	1216	1085	1102	617
35°	1192	1146	965	993	1003	727
45°	856	820	871	1044	1066	674
55°	559	586	805	951	922	483
65°	60	107	210	248	214	108
75°	7	13	19	20	12	8
85°	2	5	8	8	4	3
90°	10	16	20	38	18	11
95°	62	123	106	119	76	57
105°	166	276	367	359	302	167
115°	267	347	475	510	493	256
125°	378	407	457	549	534	319
135°	441	465	454	505	499	321
145°	479	492	488	513	556	298
155°	570	532	536	535	568	251
165°	553	596	585	557	562	144
175°	519	562	535	610	558	46
180°	567	567	567	567	567	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1288.6	1288.6	1288.6	1288.6	1288.6
5°	1619.6	1583.4	1397.0	1591.8	1536.0
10°	1431.0	1442.5	1467.0	1404.4	1398.7
15°	1386.0	1443.7	1365.4	1454.5	1295.2
20°	1452.9	1372.3	1280.5	1263.9	1238.1
25°	1343.0	1342.7	1216.1	1084.6	1102.0
30°	1212.7	1260.1	1080.0	996.5	1032.5
35°	1192.5	1145.6	965.4	993.3	1003.0
40°	1043.8	933.7	944.7	969.7	966.7
45°	856.5	820.2	871.2	1043.6	1065.7
50°	739.2	695.8	855.9	1107.6	1199.5
55°	558.6	586.2	804.9	951.3	921.8
60°	309.5	400.7	565.5	606.9	614.6
65°	59.7	106.7	210.3	248.0	213.9
70°	12.7	23.4	40.6	56.9	38.0
75°	7.0	13.0	18.8	20.3	12.1
80°	4.7	7.6	10.5	10.9	5.1
85°	2.4	4.7	8.2	7.5	4.2
90°	9.7	16.1	20.5	37.5	17.7
95°	61.9	123.0	106.0	119.1	76.4
100°	104.4	215.0	252.2	229.7	177.4
105°	166.5	276.0	367.2	359.2	302.0
110°	193.2	318.8	417.9	408.4	439.4
115°	267.4	347.3	475.0	510.1	493.0
120°	305.3	381.4	504.6	551.6	529.5
125°	378.2	407.0	456.9	549.4	533.6
130°	361.1	446.2	458.1	553.6	476.0
135°	441.4	464.7	454.3	504.7	499.0
140°	415.6	496.5	544.8	540.0	506.6
145°	479.1	491.8	488.1	512.6	555.6
150°	529.8	510.9	544.8	530.0	498.4
155°	570.1	531.9	536.5	535.4	568.4
160°	500.0	545.4	609.7	563.5	563.8
165°	553.3	596.3	584.9	556.7	562.0
170°	417.1	532.5	578.8	574.8	545.6
175°	518.8	562.5	534.9	610.2	557.8
180°	566.8	566.8	566.8	566.8	566.8

(END OF REPORT)