

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: 89069

Luminaire Tested: **E2-SB-2T8-DL-7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89069
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-2T8-DL-7
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER
BLADE
WITH DOWNLIGHT ISOLATORS
Light Source: 32 WATT T8 LAMPS
F32T8/TL841. LUMEN RATING = 3000 LMS.
Ballast/Driver: -

Summary

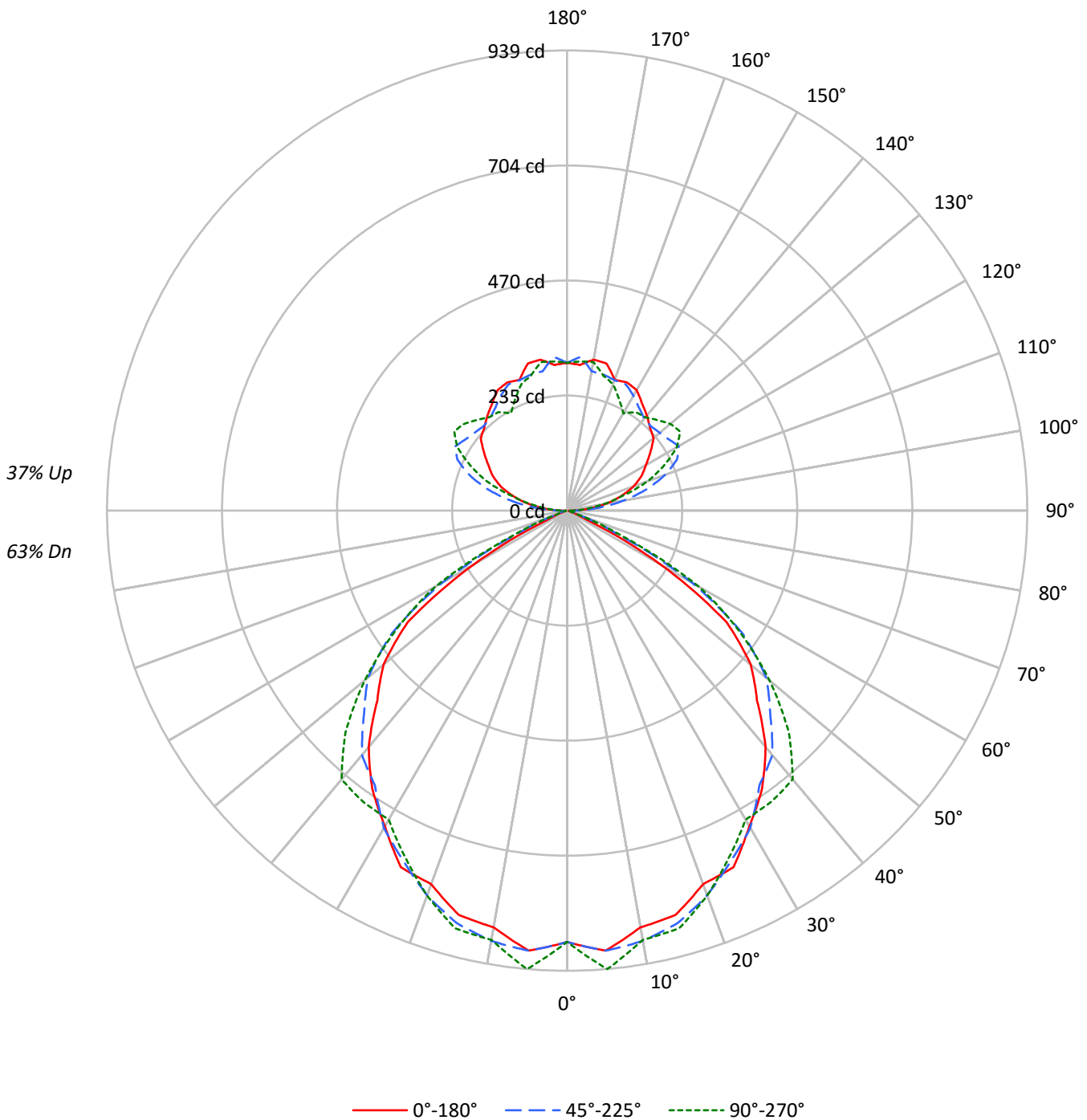
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3355.7 lumens
Efficiency: 57.9%
Efficacy: 43.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 78
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				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	64	64	64	64	60	60	60	60	52	52	52	46	46	46	39	39	39	36
1	59	57	55	53	55	53	52	50	47	46	45	41	40	39	36	35	35	32
2	54	50	47	44	51	47	45	42	42	40	38	37	35	34	32	31	30	28
3	50	45	41	37	47	42	39	36	37	35	32	33	31	29	29	28	26	24
4	46	40	35	32	43	38	34	31	34	30	28	30	27	25	26	24	23	21
5	42	36	31	28	39	34	30	27	30	27	24	27	24	22	24	22	20	18
6	39	32	27	24	36	30	26	23	27	24	21	24	22	20	22	19	18	16
7	36	29	24	21	34	28	23	20	25	21	19	22	19	17	20	17	16	14
8	33	26	22	19	31	25	21	18	23	19	17	20	18	16	18	16	14	13
9	31	24	20	17	29	23	19	16	21	17	15	19	16	14	17	14	13	12
10	29	22	18	15	27	21	17	15	19	16	14	17	15	13	15	13	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4105	4105	4105
5°	4188	4054	4184
10°	4029	3901	3822
15°	4034	3739	3690
20°	3906	3544	3428
25°	3977	3337	3167
30°	3822	3172	2941
35°	3730	2936	2943
40°	3585	2849	2938
45°	3336	2635	2675
50°	3229	2474	2319
55°	2887	2133	1911
60°	1797	1518	1452
65°	390	611	633
70°	117	142	110
75°	70	79	39
80°	62	55	18
85°	80	47	16



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	86.0	2.6	1.5
10°-20°	244.2	7.3	4.2
20°-30°	366.8	10.9	6.3
30°-40°	440.3	13.1	7.6
40°-50°	460.7	13.7	7.9
50°-60°	367.8	11.0	6.3
60°-70°	122.3	3.6	2.1
70°-80°	12.0	0.4	0.2
80°-90°	8.2	0.2	0.1
90°-100°	64.3	1.9	1.1
100°-110°	154.6	4.6	2.7
110°-120°	213.5	6.4	3.7
120°-130°	220.3	6.6	3.8
130°-140°	192.8	5.7	3.3
140°-150°	162.2	4.8	2.8
150°-160°	127.6	3.8	2.2
160°-170°	83.3	2.5	1.4
170°-180°	28.7	0.9	0.5
0°-30°	697.1	20.8	12.0
0°-40°	1137.3	33.9	19.6
0°-60°	1965.8	58.6	33.9
0°-90°	2108.4	62.8	36.4
90°-120°	432.4	12.9	7.5
90°-150°	1007.8	30.0	17.4
90°-180°	1247.0	37.2	21.5
0°-180°	3355.7	100.0	57.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	901	973	902	860	939	84
15°	854	859	871	869	883	239
25°	803	808	790	812	781	365
35°	693	705	684	705	726	432
45°	548	570	586	654	639	428
55°	397	416	437	424	428	335
65°	42	61	111	138	128	77
75°	5	9	12	11	7	6
85°	3	4	6	5	2	3
90°	9	15	16	22	12	9
95°	45	65	62	64	36	44
105°	114	169	167	140	119	120
115°	168	196	247	239	218	165
125°	207	212	253	282	281	186
135°	239	241	242	259	261	186
145°	267	274	256	251	245	168
155°	289	284	284	267	251	132
165°	311	298	287	304	285	86
175°	298	319	315	288	305	29
180°	302	302	302	302	302	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	880.4	880.4	880.4	880.4	880.4
5°	901.3	973.2	901.6	860.0	939.1
10°	863.4	871.5	891.6	925.9	889.4
15°	854.3	859.4	871.4	869.2	882.6
20°	811.0	826.2	835.4	837.8	835.9
25°	802.8	808.4	789.6	811.9	781.2
30°	743.7	755.8	747.6	744.8	728.1
35°	693.2	704.6	684.0	705.0	725.7
40°	629.9	628.2	651.2	692.3	716.1
45°	547.7	569.6	585.9	653.9	639.4
50°	488.9	501.6	530.4	544.6	539.2
55°	397.1	416.4	436.9	424.4	428.5
60°	220.3	259.8	294.1	297.9	311.1
65°	41.6	61.0	110.8	137.6	128.2
70°	10.5	15.9	23.7	31.2	20.9
75°	5.1	8.7	12.0	10.7	6.9
80°	3.4	5.4	7.4	5.7	2.8
85°	2.9	3.8	5.5	5.4	2.2
90°	9.2	14.9	16.1	22.5	12.0
95°	45.4	65.2	62.4	63.9	36.3
100°	80.5	125.0	116.2	96.3	74.3
105°	113.9	168.8	166.9	140.3	118.7
110°	144.3	187.5	212.3	184.1	174.4
115°	167.5	195.7	247.4	238.8	218.3
120°	185.3	204.7	262.9	263.2	258.2
125°	207.1	212.5	253.1	281.7	281.4
130°	230.0	225.7	246.7	269.4	275.1
135°	238.8	241.3	242.4	258.6	261.0
140°	252.9	261.2	244.5	249.4	248.4
145°	266.6	273.5	255.8	250.6	245.0
150°	283.7	284.6	270.5	246.5	229.1
155°	288.6	283.6	283.9	266.8	250.6
160°	283.8	299.9	283.1	292.2	273.9
165°	310.6	297.5	287.1	304.2	285.2
170°	312.6	291.5	288.5	286.8	307.5
175°	298.1	318.6	314.7	288.3	305.4
180°	301.5	301.5	301.5	301.5	301.5

(END OF REPORT)