

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: 89075

Luminaire Tested: **E2-SB-2T8-DL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89075
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-2T8-DL1
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

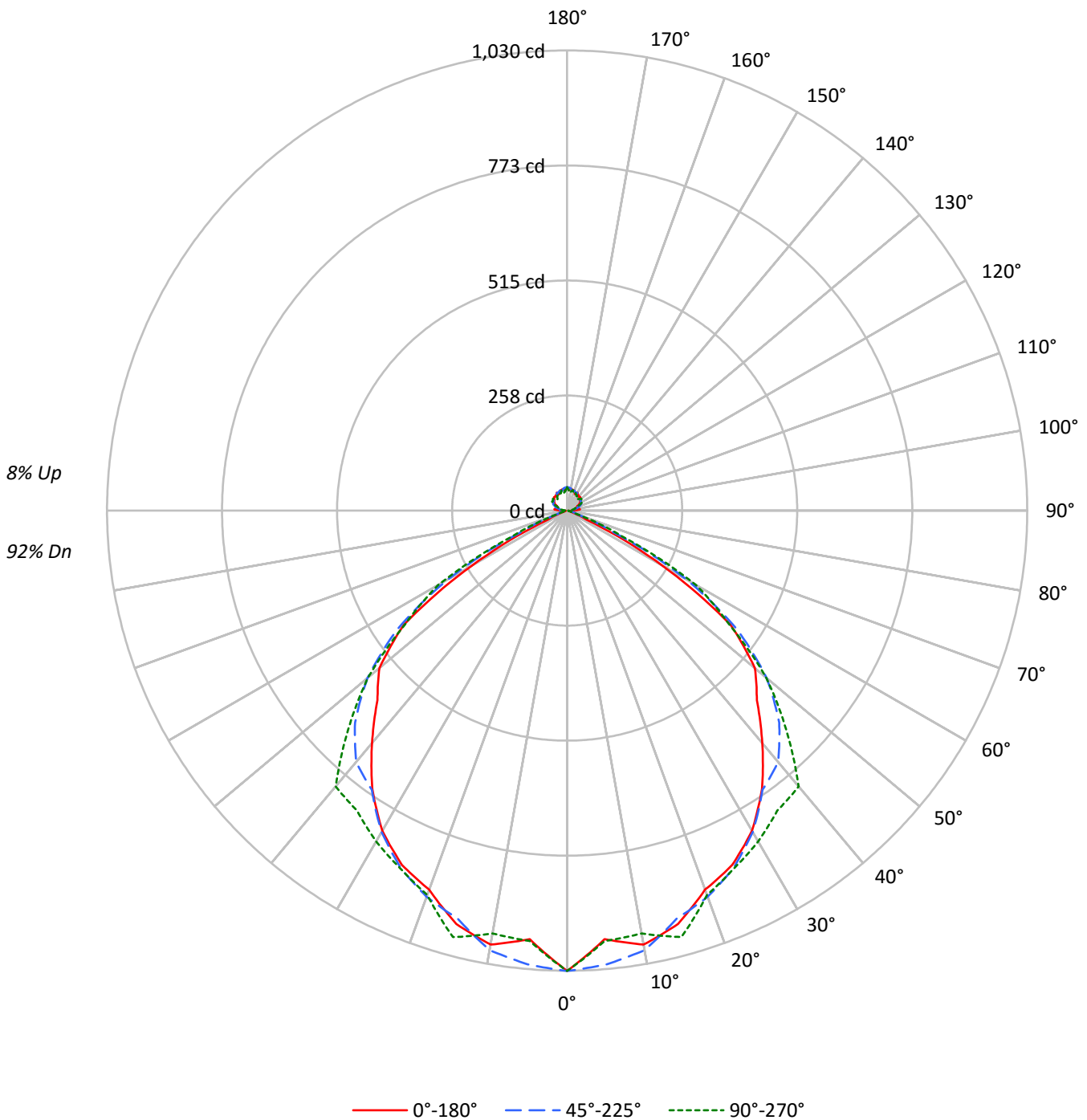
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 2523.8 lumens
Efficiency: 43.5%
Efficacy: 32.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4804	4804	4804
5°	4474	4584	4309
10°	4604	4370	4130
15°	4524	4059	4133
20°	4349	3902	3755
25°	4334	3727	3583
30°	4252	3523	3455
35°	4091	3274	3325
40°	3867	3215	3307
45°	3656	3020	2899
50°	3622	2720	2502
55°	3248	2268	1968
60°	2015	1593	1553
65°	444	629	657
70°	120	150	118
75°	79	89	39
80°	77	60	19
85°	83	35	13



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	95.6	3.8	1.6
10°-20°	270.2	10.7	4.7
20°-30°	406.3	16.1	7.0
30°-40°	493.5	19.6	8.5
40°-50°	509.4	20.2	8.8
50°-60°	399.7	15.8	6.9
60°-70°	130.1	5.2	2.2
70°-80°	13.0	0.5	0.2
80°-90°	5.5	0.2	0.1
90°-100°	16.8	0.7	0.3
100°-110°	24.6	1.0	0.4
110°-120°	31.2	1.2	0.5
120°-130°	33.2	1.3	0.6
130°-140°	30.2	1.2	0.5
140°-150°	26.2	1.0	0.5
150°-160°	20.4	0.8	0.4
160°-170°	13.2	0.5	0.2
170°-180°	4.7	0.2	0.1
0°-30°	772.1	30.6	13.3
0°-40°	1265.6	50.1	21.8
0°-60°	2174.7	86.2	37.5
0°-90°	2323.2	92.1	40.1
90°-120°	72.7	2.9	1.3
90°-150°	162.2	6.4	2.8
90°-180°	201.0	8.0	3.5
0°-180°	2523.8	100.0	43.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	963	1016	1019	1024	967	94
15°	958	948	946	970	988	269
25°	875	870	882	885	884	402
35°	760	780	763	806	820	474
45°	600	639	671	692	693	469
55°	447	475	465	449	441	377
65°	47	65	114	147	133	86
75°	6	9	14	12	7	7
85°	3	4	4	3	2	3
90°	13	10	7	5	3	8
95°	29	25	16	10	7	19
105°	23	29	24	21	19	25
115°	27	31	35	33	32	27
125°	35	35	38	40	39	32
135°	42	39	39	39	37	31
145°	42	44	42	41	39	27
155°	41	43	44	43	44	20
165°	48	48	45	45	48	14
175°	45	53	52	47	45	5
180°	52	52	52	52	52	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030.4	1030.4	1030.4	1030.4	1030.4
5°	962.8	1015.9	1019.3	1023.8	967.1
10°	986.6	973.4	998.9	993.4	961.0
15°	958.0	948.3	945.9	970.0	988.5
20°	902.9	911.9	919.8	940.7	915.5
25°	875.0	870.3	882.0	884.8	883.7
30°	827.5	839.2	830.5	848.1	855.4
35°	760.4	780.0	762.8	806.3	820.0
40°	679.3	704.2	734.7	774.7	806.1
45°	600.3	639.1	671.4	691.9	693.1
50°	548.5	566.4	583.3	583.9	581.8
55°	446.7	475.3	464.6	449.4	441.4
60°	247.0	286.8	308.7	310.5	332.7
65°	47.4	65.1	114.0	146.7	133.1
70°	10.8	16.7	25.1	33.0	22.3
75°	5.7	9.3	13.5	12.4	6.8
80°	4.2	6.0	8.1	5.8	3.0
85°	3.0	3.9	4.1	3.1	1.8
90°	13.2	9.7	6.9	4.8	3.3
95°	28.7	25.1	16.2	10.3	7.2
100°	26.1	27.1	16.6	15.0	13.5
105°	23.0	28.6	24.1	20.6	18.9
110°	22.6	28.6	28.7	26.6	21.5
115°	27.0	30.9	34.6	32.9	31.5
120°	33.0	30.4	35.8	39.8	39.0
125°	35.3	35.1	37.8	39.7	38.6
130°	37.5	36.1	38.0	37.9	41.4
135°	42.0	39.3	38.9	39.3	36.8
140°	40.9	42.0	37.5	41.4	33.3
145°	42.5	44.3	41.5	40.9	38.8
150°	46.2	44.4	45.7	41.8	40.4
155°	40.8	43.1	44.3	43.3	44.0
160°	47.5	48.7	47.6	45.1	41.0
165°	47.7	48.5	45.0	45.1	47.7
170°	49.5	49.0	49.5	46.6	40.6
175°	45.4	53.3	51.8	47.2	44.6
180°	52.4	52.4	52.4	52.4	52.4

(END OF REPORT)