

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: 89071

Luminaire Tested: **E2-SB-2T8-DL-5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89071
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-2T8-DL-5
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

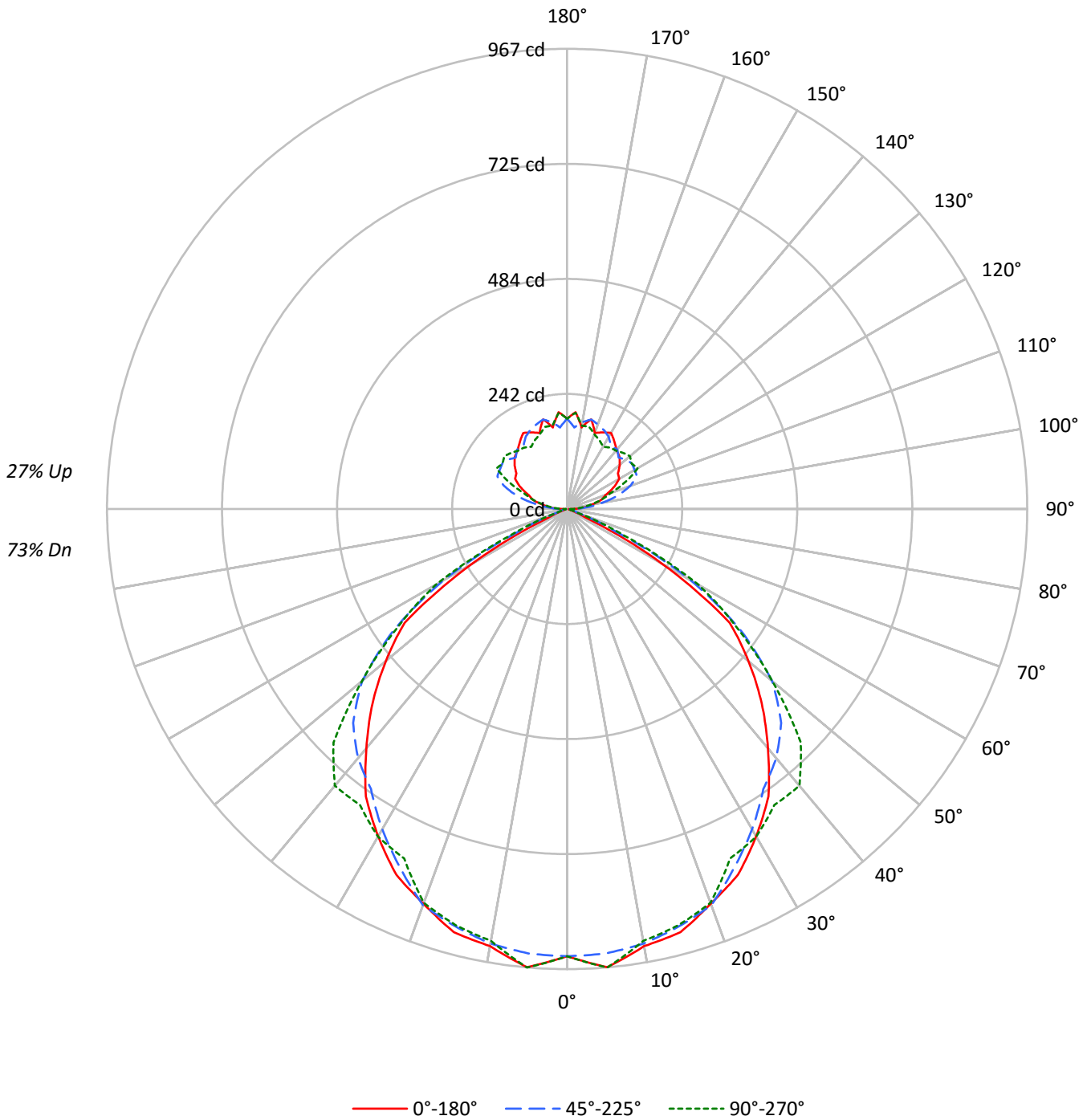
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3004.9 lumens
Efficiency: 51.8%
Efficacy: 38.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (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	55	55	55	55	50	50	50		45	45	45		40	40	40	38
1	54	52	50	49	51	50	48	47	45	44	43		41	40	39		37	36	36	34
2	50	46	43	41	47	44	42	39	40	38	36		37	35	34		33	32	31	29
3	46	41	38	35	43	39	36	34	36	33	31		33	31	29		30	28	27	25
4	42	37	33	30	40	35	32	29	32	29	27		29	27	25		27	25	24	22
5	39	33	29	26	37	32	28	25	29	26	24		27	24	22		24	22	21	19
6	36	30	26	23	34	29	25	22	26	23	21		24	22	19		22	20	18	17
7	33	27	23	20	32	26	22	19	24	21	18		22	19	17		20	18	16	15
8	31	25	21	18	29	24	20	17	22	19	16		20	17	16		19	16	15	14
9	29	22	19	16	27	22	18	16	20	17	15		19	16	14		17	15	13	12
10	27	21	17	14	26	20	16	14	19	15	13		17	15	13		16	14	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4382	4382	4382
5°	4491	4215	4310
10°	4353	4057	3961
15°	4347	3896	3786
20°	4251	3758	3612
25°	4204	3513	3286
30°	4082	3298	3211
35°	3967	3084	3079
40°	3736	2991	3115
45°	3523	2861	2904
50°	3283	2622	2421
55°	3031	2177	1947
60°	1892	1553	1489
65°	410	617	659
70°	113	143	114
75°	81	82	42
80°	59	58	18
85°	85	47	16



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	89.6	3.0	1.5
10°-20°	256.8	8.5	4.4
20°-30°	385.8	12.8	6.7
30°-40°	462.1	15.4	8.0
40°-50°	483.2	16.1	8.3
50°-60°	381.2	12.7	6.6
60°-70°	126.1	4.2	2.2
70°-80°	12.4	0.4	0.2
80°-90°	7.4	0.2	0.1
90°-100°	43.7	1.5	0.8
100°-110°	99.2	3.3	1.7
110°-120°	135.3	4.5	2.3
120°-130°	141.9	4.7	2.4
130°-140°	124.0	4.1	2.1
140°-150°	104.4	3.5	1.8
150°-160°	81.9	2.7	1.4
160°-170°	52.2	1.7	0.9
170°-180°	17.5	0.6	0.3
0°-30°	732.2	24.4	12.6
0°-40°	1194.4	39.7	20.6
0°-60°	2058.8	68.5	35.5
0°-90°	2204.7	73.4	38.0
90°-120°	278.2	9.3	4.8
90°-150°	648.5	21.6	11.2
90°-180°	800.0	26.6	13.8
0°-180°	3004.9	100.0	51.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	967	946	937	941	967	91
15°	921	895	908	922	905	259
25°	849	820	831	856	810	389
35°	737	734	719	732	759	458
45°	578	594	636	668	694	446
55°	417	444	446	435	437	349
65°	44	62	112	142	134	81
75°	6	9	12	11	7	7
85°	3	4	6	5	2	3
90°	11	12	13	16	11	8
95°	35	42	42	44	27	31
105°	74	105	111	94	74	76
115°	108	123	162	145	136	106
125°	130	140	166	182	166	119
135°	156	158	153	164	167	119
145°	173	178	160	159	157	108
155°	177	192	183	167	160	82
165°	195	185	195	183	179	52
175°	204	181	172	175	203	18
180°	190	190	190	190	190	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.8	939.8	939.8	939.8	939.8
5°	966.6	945.6	937.4	941.1	967.4
10°	932.8	940.5	927.3	907.9	921.6
15°	920.6	895.1	908.0	921.9	905.4
20°	882.6	891.7	885.9	884.1	880.6
25°	848.6	819.6	831.3	855.7	810.4
30°	794.4	796.4	777.3	789.1	795.0
35°	737.3	733.8	718.7	732.4	759.3
40°	656.3	663.5	683.5	715.9	759.4
45°	578.4	594.4	636.1	667.9	694.3
50°	497.2	524.0	562.2	552.5	563.1
55°	416.9	443.9	446.1	434.6	436.6
60°	231.9	279.5	301.0	302.2	319.1
65°	43.7	62.0	111.8	141.5	133.6
70°	10.2	15.9	24.0	32.0	21.6
75°	5.9	9.1	12.4	11.2	7.4
80°	3.2	5.7	7.8	5.8	2.9
85°	3.1	3.6	5.6	5.2	2.2
90°	10.7	12.4	13.0	15.6	10.6
95°	35.0	42.0	42.3	44.4	27.2
100°	52.7	77.3	74.2	68.1	48.5
105°	74.5	105.3	110.6	94.4	73.7
110°	86.2	116.8	140.4	115.8	96.4
115°	108.3	123.4	161.8	144.7	136.2
120°	126.3	129.1	163.8	173.2	171.2
125°	130.2	139.8	166.3	182.1	165.7
130°	144.2	152.3	161.2	173.6	172.2
135°	155.5	157.8	152.8	164.5	166.7
140°	161.3	168.0	163.6	152.2	159.9
145°	173.0	177.9	160.2	159.0	157.4
150°	184.5	182.1	174.7	168.1	150.7
155°	177.4	192.3	182.8	166.8	159.9
160°	169.9	177.6	188.8	183.7	167.0
165°	195.3	185.1	194.7	183.1	178.6
170°	173.9	189.2	185.1	182.0	177.6
175°	204.2	181.0	171.8	175.0	202.9
180°	189.7	189.7	189.7	189.7	189.7

(END OF REPORT)