

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: 89070

Luminaire Tested: **E2-SB-2T8-DL-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89070
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-2T8-DL-6
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

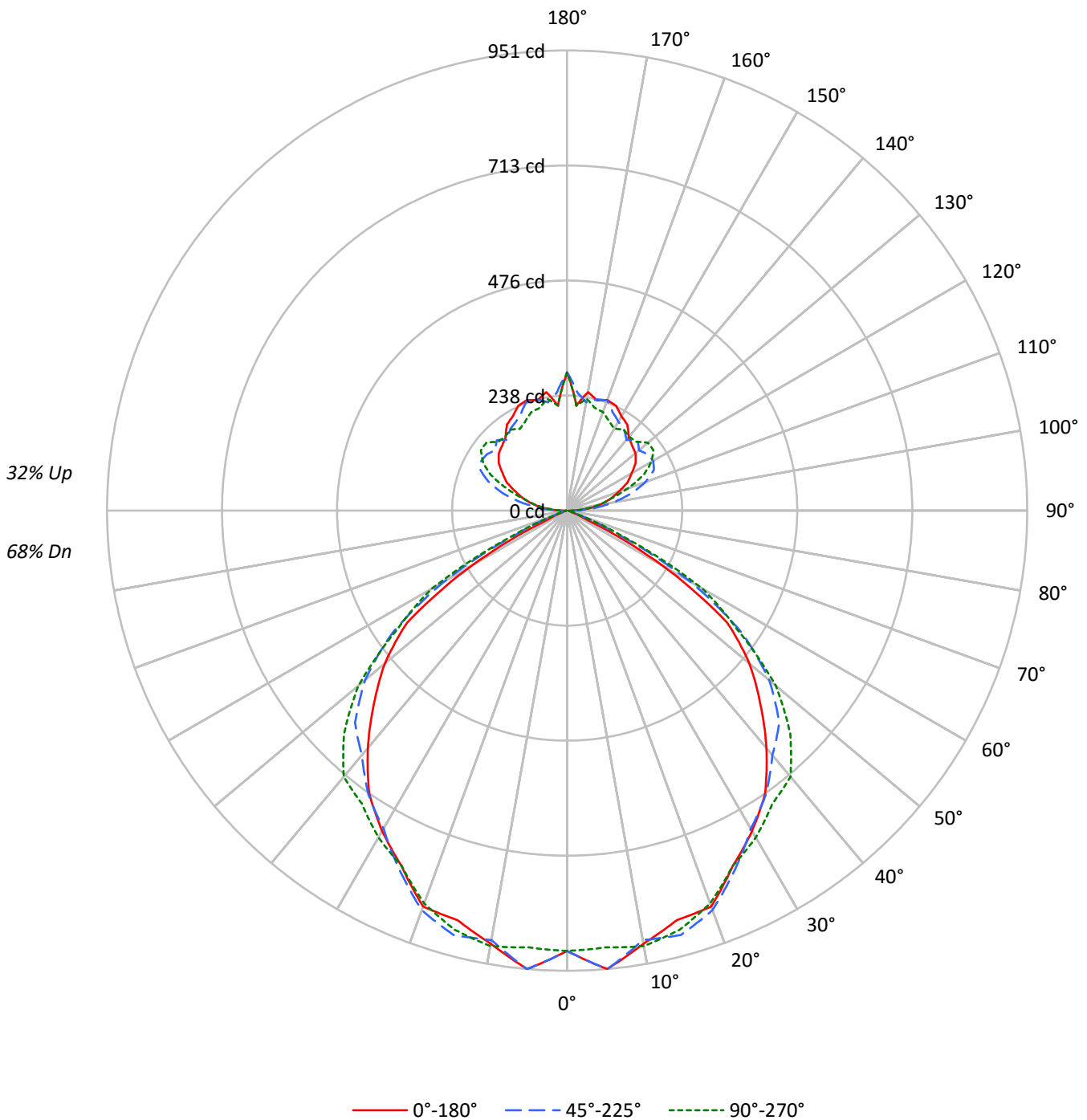
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3159.9 lumens
Efficiency: 54.5%
Efficacy: 40.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (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	61	61	61	61	57	57	57	57	51	51	51	45	45	45	40	40	40	37
1	56	54	52	51	53	51	50	48	46	45	44	41	40	39	36	36	35	33
2	52	48	45	42	49	46	43	41	41	39	37	37	35	34	33	32	31	29
3	48	43	39	36	45	41	37	35	37	34	32	33	31	29	29	28	27	25
4	44	38	34	31	41	36	33	30	33	30	27	30	27	25	27	25	23	22
5	40	34	30	27	38	33	29	26	30	26	24	27	24	22	24	22	20	19
6	37	31	26	23	35	29	25	23	27	23	21	24	22	20	22	20	18	17
7	34	28	24	21	33	27	23	20	24	21	19	22	19	17	20	18	16	15
8	32	25	21	18	30	24	20	18	22	19	17	20	18	16	18	16	14	13
9	30	23	19	16	28	22	18	16	20	17	15	19	16	14	17	15	13	12
10	28	21	17	15	26	20	17	14	19	16	14	17	15	13	16	13	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4243	4243	4243
5°	4419	4277	4037
10°	4241	3943	3927
15°	4137	3896	3750
20°	4193	3727	3543
25°	4013	3464	3285
30°	3929	3221	3150
35°	3840	3073	2999
40°	3647	2888	2946
45°	3439	2789	2727
50°	3249	2542	2421
55°	2936	2154	1915
60°	1862	1513	1508
65°	405	616	640
70°	113	145	112
75°	79	81	41
80°	71	55	18
85°	77	50	15



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	88.2	2.8	1.5
10°-20°	253.7	8.0	4.4
20°-30°	377.3	11.9	6.5
30°-40°	451.5	14.3	7.8
40°-50°	471.3	14.9	8.1
50°-60°	374.0	11.8	6.4
60°-70°	124.0	3.9	2.1
70°-80°	12.2	0.4	0.2
80°-90°	7.6	0.2	0.1
90°-100°	53.4	1.7	0.9
100°-110°	124.6	3.9	2.1
110°-120°	169.9	5.4	2.9
120°-130°	176.2	5.6	3.0
130°-140°	154.7	4.9	2.7
140°-150°	129.9	4.1	2.2
150°-160°	102.8	3.3	1.8
160°-170°	65.3	2.1	1.1
170°-180°	23.1	0.7	0.4
0°-30°	719.3	22.8	12.4
0°-40°	1170.8	37.1	20.2
0°-60°	2016.1	63.8	34.8
0°-90°	2160.0	68.4	37.2
90°-120°	347.8	11.0	6.0
90°-150°	808.7	25.6	13.9
90°-180°	1000.0	31.6	17.2
0°-180°	3159.9	100.0	54.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	951	902	951	950	906	89
15°	876	914	908	894	897	250
25°	810	819	820	817	810	376
35°	714	714	716	718	740	444
45°	565	584	620	654	652	437
55°	404	431	441	432	430	341
65°	43	61	112	142	130	79
75°	6	9	12	11	7	7
85°	3	4	6	6	2	3
90°	11	12	14	18	11	9
95°	41	55	53	50	34	38
105°	92	136	137	113	91	96
115°	138	160	198	178	174	134
125°	173	175	203	219	218	153
135°	190	192	206	206	201	147
145°	217	219	205	197	204	134
155°	239	234	224	211	204	109
165°	236	228	238	223	220	68
175°	217	239	244	260	218	23
180°	286	286	286	286	286	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.1	910.1	910.1	910.1	910.1
5°	951.0	902.1	951.1	950.1	906.1
10°	908.8	964.6	901.3	892.0	913.9
15°	876.1	914.0	908.0	893.8	896.9
20°	870.6	873.0	878.5	860.3	863.8
25°	810.2	819.3	819.6	816.6	810.1
30°	764.6	773.2	759.2	766.4	779.9
35°	713.6	713.6	716.1	717.8	739.6
40°	640.8	657.0	660.0	707.4	718.2
45°	564.7	584.3	620.1	653.7	652.0
50°	492.0	501.4	545.1	551.9	563.0
55°	403.8	430.8	441.4	432.1	429.6
60°	228.2	267.1	293.1	296.8	323.1
65°	43.2	60.9	111.6	141.6	129.8
70°	10.2	15.9	24.3	29.9	21.2
75°	5.7	9.3	12.3	11.0	7.1
80°	3.9	5.9	7.5	5.4	2.8
85°	2.8	3.6	5.9	5.6	2.1
90°	10.7	12.3	13.5	18.1	10.9
95°	41.0	54.6	53.1	50.3	34.5
100°	67.3	96.2	95.3	79.9	66.1
105°	91.9	135.9	137.0	112.7	91.3
110°	112.3	153.0	172.0	147.3	132.4
115°	137.5	160.2	197.9	178.2	173.8
120°	153.8	167.3	205.2	212.9	200.9
125°	172.7	174.7	202.6	219.4	217.5
130°	184.3	185.7	193.8	217.1	218.0
135°	189.8	191.7	205.7	206.1	201.2
140°	197.8	208.1	190.8	203.8	199.0
145°	216.7	219.0	205.2	197.4	204.0
150°	224.7	225.4	211.9	200.0	195.1
155°	238.8	234.4	223.5	210.7	204.0
160°	242.8	233.7	242.2	227.9	216.4
165°	235.8	227.5	237.9	223.0	219.6
170°	248.7	219.8	227.2	230.6	234.3
175°	217.2	239.0	244.4	259.5	217.5
180°	285.5	285.5	285.5	285.5	285.5

(END OF REPORT)