

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: 16790

Luminaire Tested: **682-CF1/26-120SSB-NB2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 16790
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 682-CF1/26-120SSB-NB2
Description: WALL MOUNT LUMINAIRE
WITH WHITE INTERIOR AND FLAT WHITE PLASTIC LENS
Light Source: ONE SYLVANIA 26 WATT CPFL LAMP

CF26DD/E/841. LUMEN RATING = 1825 LMS.

Ballast/Driver: -

Summary

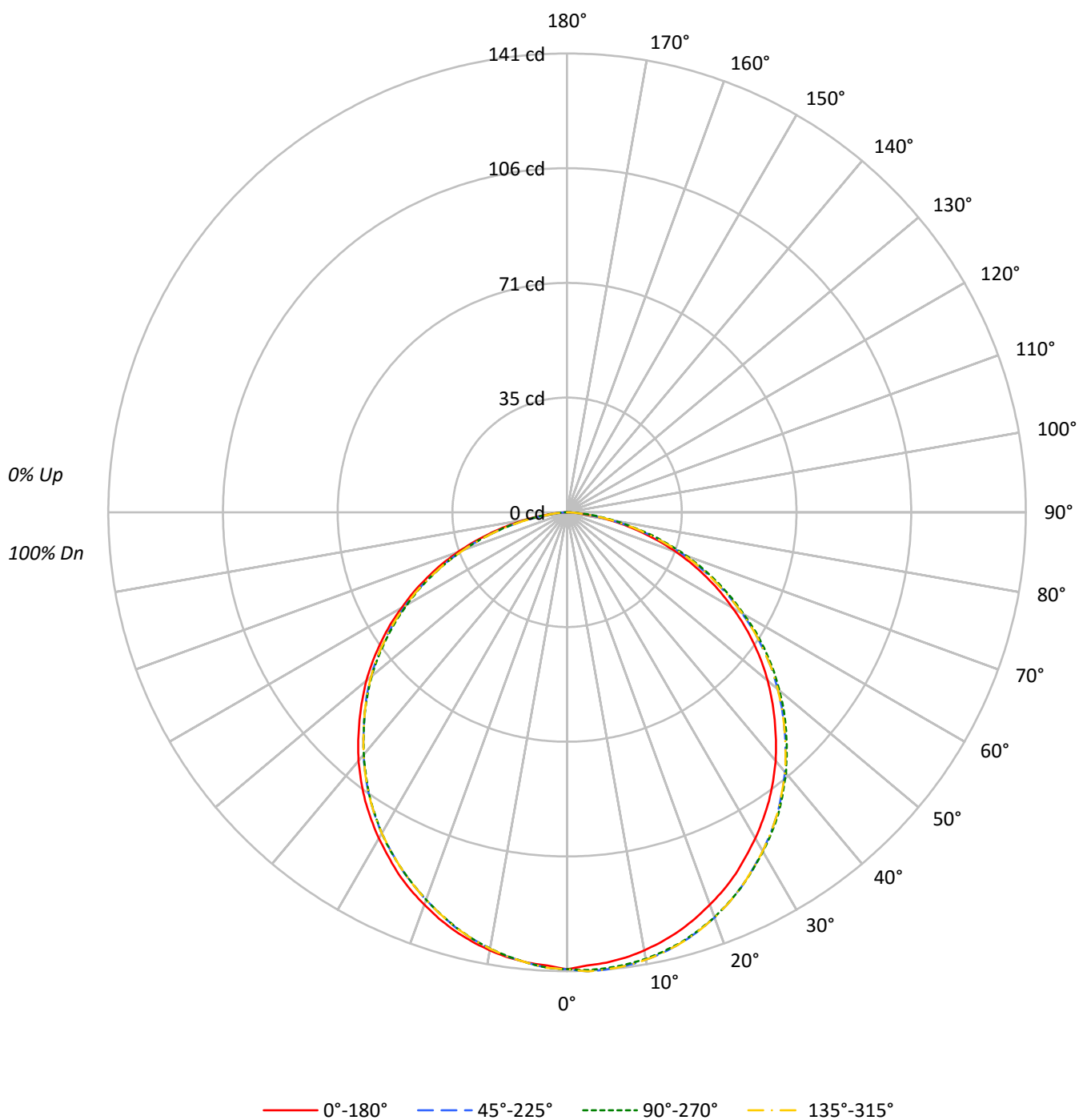
Lumens per Lamp: 1825 (1 lamp)
Luminaire Lumens: 388.1 lumens
Efficiency: 21.3%
Efficacy: 15.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.5' x L: 0.58' x H: 0')
CIE Type: Direct

Input Watts (W): 25
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	25	25	25	25	25	25	25	25	24	24	24	23	23	23	22	22	22
1	23	22	21	20	23	22	21	20	21	20	20	20	19	19	19	19	18
2	21	19	18	17	21	19	18	17	18	17	16	17	17	16	17	16	15
3	19	17	15	14	19	17	15	14	16	15	14	15	14	13	15	14	13
4	18	15	13	12	17	15	13	12	14	13	12	14	12	11	13	12	11
5	16	13	12	10	16	13	11	10	13	11	10	12	11	10	12	11	10
6	15	12	10	9	15	12	10	9	12	10	9	11	10	9	11	10	9
7	14	11	9	8	13	11	9	8	10	9	8	10	9	8	10	9	8
8	13	10	8	7	13	10	8	7	10	8	7	9	8	7	9	8	7
9	12	9	7	6	12	9	7	6	9	7	6	9	7	6	8	7	6
10	11	8	7	6	11	8	7	6	8	7	6	8	7	6	8	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5211	5211	5211	5211
5°	5175	5239	5175	5179
10°	5152	5250	5152	5130
15°	5118	5249	5118	5072
20°	5068	5230	5068	5005
25°	5021	5201	5021	4943
30°	4959	5160	4959	4882
35°	4903	5129	4903	4803
40°	4831	5068	4831	4710
45°	4735	4997	4735	4619
50°	4648	4920	4648	4527
55°	4523	4821	4523	4387
60°	4358	4662	4358	4216
65°	4163	4488	4163	4005
70°	3874	4243	3874	3701
75°	3413	3815	3413	3212
80°	2715	3185	2715	2544
85°	1618	2215	1618	1491

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	13.3	3.4	0.7
10°-20°	37.8	9.7	2.1
20°-30°	56.9	14.7	3.1
30°-40°	68.3	17.6	3.7
40°-50°	70.4	18.1	3.9
50°-60°	63.3	16.3	3.5
60°-70°	47.4	12.2	2.6
70°-80°	25.5	6.6	1.4
80°-90°	5.3	1.4	0.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	108.0	27.8	5.9
0°-40°	176.3	45.4	9.7
0°-60°	309.9	79.8	17.0
0°-90°	388.1	100.0	21.3
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	388.1	100.0	21.3

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	140	140	140	140	140	
5°	139	141	139	139	139	13
15°	133	137	133	132	133	38
25°	123	127	123	121	123	56
35°	108	113	108	106	108	68
45°	90	95	90	88	90	70
55°	70	74	70	68	70	62
65°	47	51	47	46	47	47
75°	24	27	24	22	24	25
85°	4	5	4	4	4	5
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	139.4	140.3	141.2	140.8	140.8	140.8	141.2	140.3	139.4	139.8	140.1
5°	138.9	140.0	141.0	140.6	140.6	140.6	141.0	140.0	138.9	139.0	139.0
7.5°	138.0	139.4	140.5	140.2	140.1	140.2	140.5	139.4	138.0	137.8	137.8
10°	136.7	138.4	139.6	139.4	139.3	139.4	139.6	138.4	136.7	136.3	136.2
12.5°	135.1	137.2	138.4	138.2	138.1	138.2	138.4	137.2	135.1	134.6	134.3
15°	133.2	135.4	136.8	136.6	136.6	136.6	136.8	135.4	133.2	132.3	132.1
17.5°	130.9	133.4	134.8	134.7	134.6	134.7	134.8	133.4	130.9	129.9	129.5
20°	128.3	130.9	132.5	132.5	132.4	132.5	132.5	130.9	128.3	127.0	126.7
22.5°	125.6	128.3	129.9	130.0	129.8	130.0	129.9	128.3	125.6	124.2	123.8
25°	122.6	125.4	126.9	127.1	127.0	127.1	126.9	125.4	122.6	121.1	120.7
27.5°	119.1	122.1	123.6	123.9	123.7	123.9	123.6	122.1	119.1	117.7	117.3
30°	115.7	118.7	120.2	120.6	120.4	120.6	120.2	118.7	115.7	114.2	113.9
32.5°	112.0	114.8	116.6	116.9	116.9	116.9	116.6	114.8	112.0	110.5	110.1
35°	108.2	111.2	112.8	113.3	113.2	113.3	112.8	111.2	108.2	106.6	106.1
37.5°	104.0	106.9	108.5	109.0	108.9	109.0	108.5	106.9	104.0	102.3	101.8
40°	99.7	102.6	104.2	104.7	104.6	104.7	104.2	102.6	99.7	97.9	97.3
42.5°	95.0	97.9	99.4	100.1	99.9	100.1	99.4	97.9	95.0	93.1	92.6
45°	90.2	93.2	94.5	95.2	95.2	95.2	94.5	93.2	90.2	88.4	88.0
47.5°	85.4	88.2	89.6	90.4	90.4	90.4	89.6	88.2	85.4	83.8	83.5
50°	80.5	83.0	84.5	85.3	85.2	85.3	84.5	83.0	80.5	78.8	78.7
52.5°	75.4	78.0	79.3	80.0	80.0	80.0	79.3	78.0	75.4	73.9	73.7
55°	69.9	72.4	73.7	74.4	74.5	74.4	73.7	72.4	69.9	68.4	68.3
57.5°	64.5	66.8	68.1	68.9	68.9	68.9	68.1	66.8	64.5	62.9	63.1
60°	58.7	61.0	62.1	62.8	62.8	62.8	62.1	61.0	58.7	57.3	57.3
62.5°	53.2	55.1	56.2	57.0	57.0	57.0	56.2	55.1	53.2	52.1	51.8
65°	47.4	49.1	50.1	50.8	51.1	50.8	50.1	49.1	47.4	46.3	45.7
67.5°	41.6	43.2	44.1	44.8	45.0	44.8	44.1	43.2	41.6	40.6	40.0
70°	35.7	37.3	38.2	38.8	39.1	38.8	38.2	37.3	35.7	34.6	34.0
72.5°	29.7	31.0	31.7	32.3	32.6	32.3	31.7	31.0	29.7	28.5	28.0
75°	23.8	25.1	25.6	26.2	26.6	26.2	25.6	25.1	23.8	22.6	22.2
77.5°	18.0	18.9	19.5	20.1	20.3	20.1	19.5	18.9	18.0	16.8	16.3
80°	12.7	13.6	13.8	14.4	14.9	14.4	13.8	13.6	12.7	11.5	11.1
82.5°	7.7	8.3	8.5	9.1	9.6	9.1	8.5	8.3	7.7	6.6	6.4
85°	3.8	4.2	4.2	4.8	5.2	4.8	4.2	4.2	3.8	3.1	3.0
87.5°	1.2	1.5	1.4	1.7	2.2	1.7	1.4	1.5	1.2	1.0	1.0
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	140.0	140.1	140.0	140.1	139.8	139.4
5°	139.0	139.0	139.0	139.0	139.0	138.9
7.5°	137.7	137.7	137.7	137.8	137.8	138.0
10°	136.0	136.1	136.0	136.2	136.3	136.7
12.5°	134.2	134.3	134.2	134.3	134.6	135.1
15°	131.9	132.0	131.9	132.1	132.3	133.2
17.5°	129.4	129.4	129.4	129.5	129.9	130.9
20°	126.7	126.7	126.7	126.7	127.0	128.3
22.5°	123.9	123.7	123.9	123.8	124.2	125.6
25°	120.6	120.7	120.6	120.7	121.1	122.6
27.5°	117.2	117.4	117.2	117.3	117.7	119.1
30°	113.7	113.9	113.7	113.9	114.2	115.7
32.5°	110.0	110.0	110.0	110.1	110.5	112.0
35°	106.1	106.0	106.1	106.1	106.6	108.2
37.5°	101.8	101.6	101.8	101.8	102.3	104.0
40°	97.4	97.2	97.4	97.3	97.9	99.7
42.5°	92.9	92.5	92.9	92.6	93.1	95.0
45°	88.3	88.0	88.3	88.0	88.4	90.2
47.5°	83.7	83.2	83.7	83.5	83.8	85.4
50°	78.8	78.4	78.8	78.7	78.8	80.5
52.5°	73.8	73.2	73.8	73.7	73.9	75.4
55°	68.4	67.8	68.4	68.3	68.4	69.9
57.5°	63.0	62.4	63.0	63.1	62.9	64.5
60°	57.1	56.8	57.1	57.3	57.3	58.7
62.5°	51.6	51.4	51.6	51.8	52.1	53.2
65°	45.9	45.6	45.9	45.7	46.3	47.4
67.5°	40.1	39.8	40.1	40.0	40.6	41.6
70°	34.3	34.1	34.3	34.0	34.6	35.7
72.5°	28.3	28.1	28.3	28.0	28.5	29.7
75°	22.5	22.4	22.5	22.2	22.6	23.8
77.5°	16.9	16.9	16.9	16.3	16.8	18.0
80°	11.7	11.9	11.7	11.1	11.5	12.7
82.5°	6.9	7.2	6.9	6.4	6.6	7.7
85°	3.3	3.5	3.3	3.0	3.1	3.8
87.5°	1.0	1.1	1.0	1.0	1.0	1.2
90°	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)