

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: HALO

Report Number: 20229

Luminaire Tested: **RL706830WBS/RL706830E26WBS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20229
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RL706830WBS/RL706830E26WBS
Description: FORMED STEEL HOUSING, CAST WHITE ENAMEL INNER HOUSING,
TRANSLUCENT WHITE PLASTIC ENCLOSURE ABOVE STEPPED WHITE
ENAMEL ALUMINUM LOWER REFLECTOR.
Light Source: ONE WHITE LED

Ballast/Driver: LED POWER SUPPLY: ONE LD015D-C311215-15

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 635.5 lumens
Efficiency: N/A
Efficacy: 46.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.36' x H: 0')
CIE Type: Direct

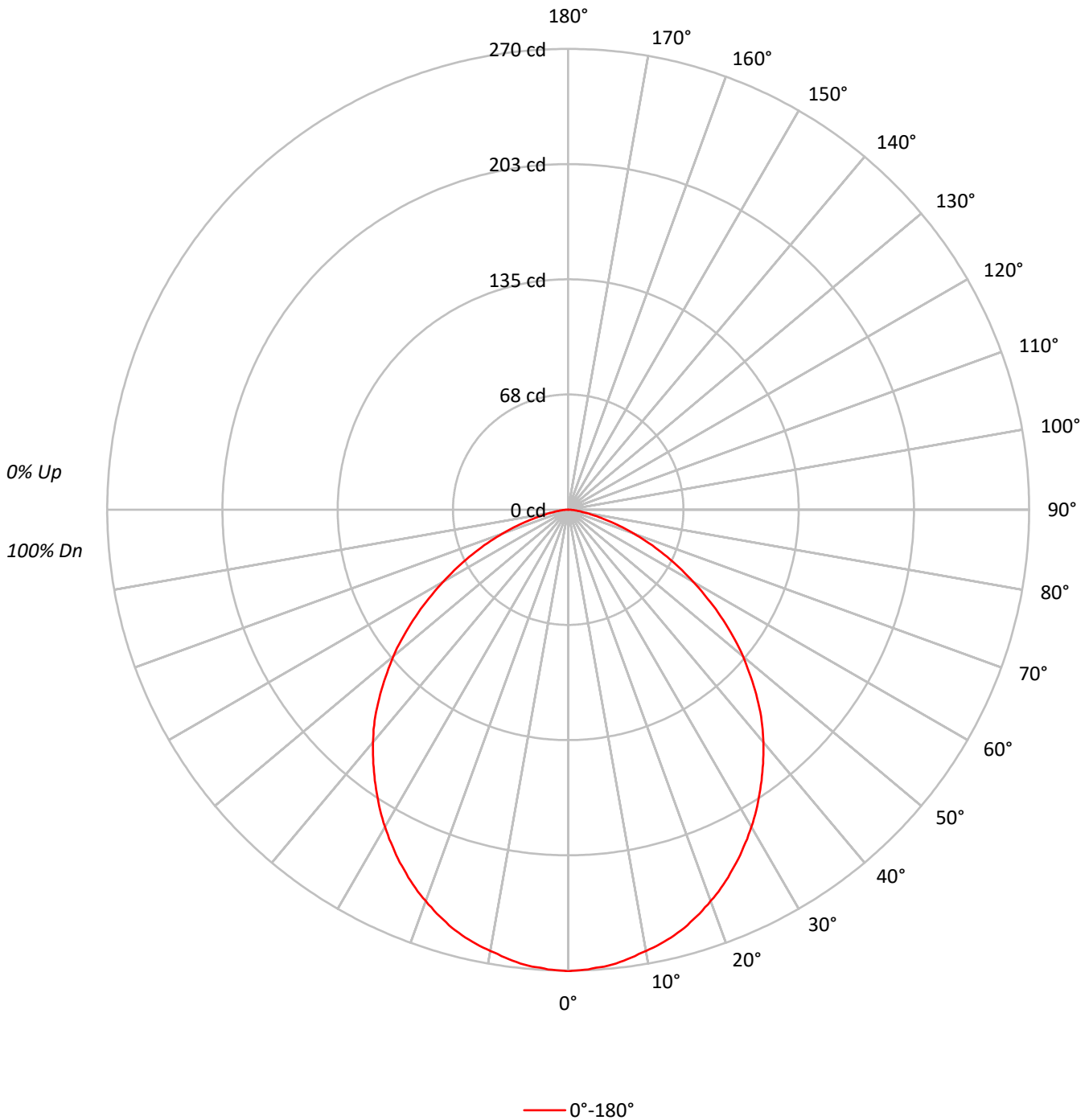
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82	79	76	74
3	93	83	75	69	90	81	74	69	78	72	67		76	71	66		73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		66	61	57	55
5	79	66	58	52	77	65	57	51	63	56	51		61	55	50		60	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45		56	49	44		54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40		51	44	40		50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36		47	40	36		46	40	35	34
9	59	46	38	33	58	45	38	33	44	37	32		43	37	32		42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	29		39	34	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27827
5°	27695
10°	27420
15°	27179
20°	26701
25°	26140
30°	25491
35°	24715
40°	23877
45°	22783
50°	21397
55°	19549
60°	17426
65°	15092
70°	12332
75°	9181
80°	5983
85°	4603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	4.0
10°-20°	71.9	11.3
20°-30°	106.1	16.7
30°-40°	123.1	19.4
40°-50°	120.6	19.0
50°-60°	97.5	15.3
60°-70°	61.5	9.7
70°-80°	25.1	4.0
80°-90°	4.5	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	203.3	32.0
0°-40°	326.4	51.4
0°-60°	544.4	85.7
0°-90°	635.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	635.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	270	
5°	268	25
15°	255	72
25°	230	106
35°	197	123
45°	157	121
55°	109	97
65°	62	62
75°	23	25
85°	4	4
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

	0°
0°	270.5
0.5°	270.2
1°	270.1
1.5°	269.9
2°	269.7
2.5°	269.6
3°	269.2
3.5°	268.9
4°	268.7
4.5°	268.5
5°	268.2
5.5°	267.8
6°	267.4
6.5°	266.7
7°	266.2
7.5°	265.6
8°	265.0
8.5°	264.4
9°	263.6
9.5°	263.0
10°	262.5
10.5°	261.9
11°	261.4
11.5°	260.7
12°	260.0
12.5°	259.3
13°	258.6
13.5°	257.8
14°	257.0
14.5°	256.0
15°	255.2
15.5°	254.3
16°	253.3
16.5°	252.1
17°	251.0
17.5°	249.9
18°	248.9
18.5°	247.7
19°	246.3
19.5°	245.3
20°	243.9
20.5°	242.8
21°	241.6
21.5°	240.4
22°	239.0



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CANDELA DISTRIBUTION (continued):

	0°
22.5°	237.6
23°	236.2
23.5°	234.9
24°	233.2
24.5°	231.8
25°	230.3
25.5°	229.0
26°	227.5
26.5°	226.0
27°	224.2
27.5°	222.6
28°	221.0
28.5°	219.6
29°	217.7
29.5°	216.2
30°	214.6
30.5°	213.0
31°	211.3
31.5°	209.5
32°	207.8
32.5°	206.0
33°	204.2
33.5°	202.3
34°	200.5
34.5°	198.7
35°	196.8
35.5°	195.0
36°	193.1
36.5°	191.2
37°	189.2
37.5°	187.5
38°	185.5
38.5°	183.6
39°	181.7
39.5°	179.8
40°	177.8
40.5°	175.9
41°	173.9
41.5°	172.0
42°	169.8
42.5°	167.8
43°	165.6
43.5°	163.4
44°	161.2
44.5°	158.8



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CANDELA DISTRIBUTION (continued):

	0°
45°	156.6
45.5°	154.3
46°	152.0
46.5°	149.7
47°	147.5
47.5°	145.1
48°	142.8
48.5°	140.5
49°	138.2
49.5°	135.9
50°	133.7
50.5°	131.4
51°	129.0
51.5°	126.5
52°	124.1
52.5°	121.6
53°	119.0
53.5°	116.6
54°	114.1
54.5°	111.5
55°	109.0
55.5°	106.6
56°	104.2
56.5°	101.7
57°	99.2
57.5°	96.7
58°	94.2
58.5°	91.8
59°	89.4
59.5°	87.0
60°	84.7
60.5°	82.3
61°	80.1
61.5°	77.7
62°	75.5
62.5°	73.2
63°	71.0
63.5°	68.6
64°	66.4
64.5°	64.2
65°	62.0
65.5°	59.9
66°	57.7
66.5°	55.5
67°	53.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	51.2
68°	49.1
68.5°	46.9
69°	44.8
69.5°	42.9
70°	41.0
70.5°	39.0
71°	37.1
71.5°	35.2
72°	33.3
72.5°	31.5
73°	29.8
73.5°	28.0
74°	26.2
74.5°	24.6
75°	23.1
75.5°	21.4
76°	20.0
76.5°	18.5
77°	17.1
77.5°	15.8
78°	14.4
78.5°	13.3
79°	12.2
79.5°	11.1
80°	10.1
80.5°	9.2
81°	8.4
81.5°	7.5
82°	6.9
82.5°	6.2
83°	5.7
83.5°	5.2
84°	4.9
84.5°	4.3
85°	3.9
85.5°	3.5
86°	3.0
86.5°	2.5
87°	2.1
87.5°	1.7
88°	1.3
88.5°	0.9
89°	0.4
89.5°	0.2



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CANDELA DISTRIBUTION (continued):

	0°
90°	0.0
90.5°	0.0
91°	0.0
91.5°	0.0
92°	0.0
92.5°	0.0
93°	0.0
93.5°	0.0
94°	0.0
94.5°	0.0
95°	0.0
95.5°	0.0
96°	0.0
96.5°	0.0
97°	0.0
97.5°	0.0
98°	0.0
98.5°	0.0
99°	0.0
99.5°	0.0
100°	0.0
100.5°	0.0
101°	0.0
101.5°	0.0
102°	0.0
102.5°	0.0
103°	0.0
103.5°	0.0
104°	0.0
104.5°	0.0
105°	0.0
105.5°	0.0
106°	0.0
106.5°	0.0
107°	0.0
107.5°	0.0
108°	0.0
108.5°	0.0
109°	0.0
109.5°	0.0
110°	0.0
110.5°	0.0
111°	0.0
111.5°	0.0
112°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
113°	0.0
113.5°	0.0
114°	0.0
114.5°	0.0
115°	0.0
115.5°	0.0
116°	0.0
116.5°	0.0
117°	0.0
117.5°	0.0
118°	0.0
118.5°	0.0
119°	0.0
119.5°	0.0
120°	0.0
120.5°	0.0
121°	0.0
121.5°	0.0
122°	0.0
122.5°	0.0
123°	0.0
123.5°	0.0
124°	0.0
124.5°	0.0
125°	0.0
125.5°	0.0
126°	0.0
126.5°	0.0
127°	0.0
127.5°	0.0
128°	0.0
128.5°	0.0
129°	0.0
129.5°	0.0
130°	0.0
130.5°	0.0
131°	0.0
131.5°	0.0
132°	0.0
132.5°	0.0
133°	0.0
133.5°	0.0
134°	0.0
134.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
135°	0.0
135.5°	0.0
136°	0.0
136.5°	0.0
137°	0.0
137.5°	0.0
138°	0.0
138.5°	0.0
139°	0.0
139.5°	0.0
140°	0.0
140.5°	0.0
141°	0.0
141.5°	0.0
142°	0.0
142.5°	0.0
143°	0.0
143.5°	0.0
144°	0.0
144.5°	0.0
145°	0.0
145.5°	0.0
146°	0.0
146.5°	0.0
147°	0.0
147.5°	0.0
148°	0.0
148.5°	0.0
149°	0.0
149.5°	0.0
150°	0.0
150.5°	0.0
151°	0.0
151.5°	0.0
152°	0.0
152.5°	0.0
153°	0.0
153.5°	0.0
154°	0.0
154.5°	0.0
155°	0.0
155.5°	0.0
156°	0.0
156.5°	0.0
157°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
157.5°	0.0
158°	0.0
158.5°	0.0
159°	0.0
159.5°	0.0
160°	0.0
160.5°	0.0
161°	0.0
161.5°	0.0
162°	0.0
162.5°	0.0
163°	0.0
163.5°	0.0
164°	0.0
164.5°	0.0
165°	0.0
165.5°	0.0
166°	0.0
166.5°	0.0
167°	0.0
167.5°	0.0
168°	0.0
168.5°	0.0
169°	0.0
169.5°	0.0
170°	0.0
170.5°	0.0
171°	0.0
171.5°	0.0
172°	0.0
172.5°	0.0
173°	0.0
173.5°	0.0
174°	0.0
174.5°	0.0
175°	0.0
175.5°	0.0
176°	0.0
176.5°	0.0
177°	0.0
177.5°	0.0
178°	0.0
178.5°	0.0
179°	0.0
179.5°	0.0



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CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{0.0}$

(END OF REPORT)