

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: E395646

Luminaire Tested: **H2579**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E395646
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H2579
Description: HALO DECO I
Light Source: 13WTT 13W 900 LUMENS
10mm TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

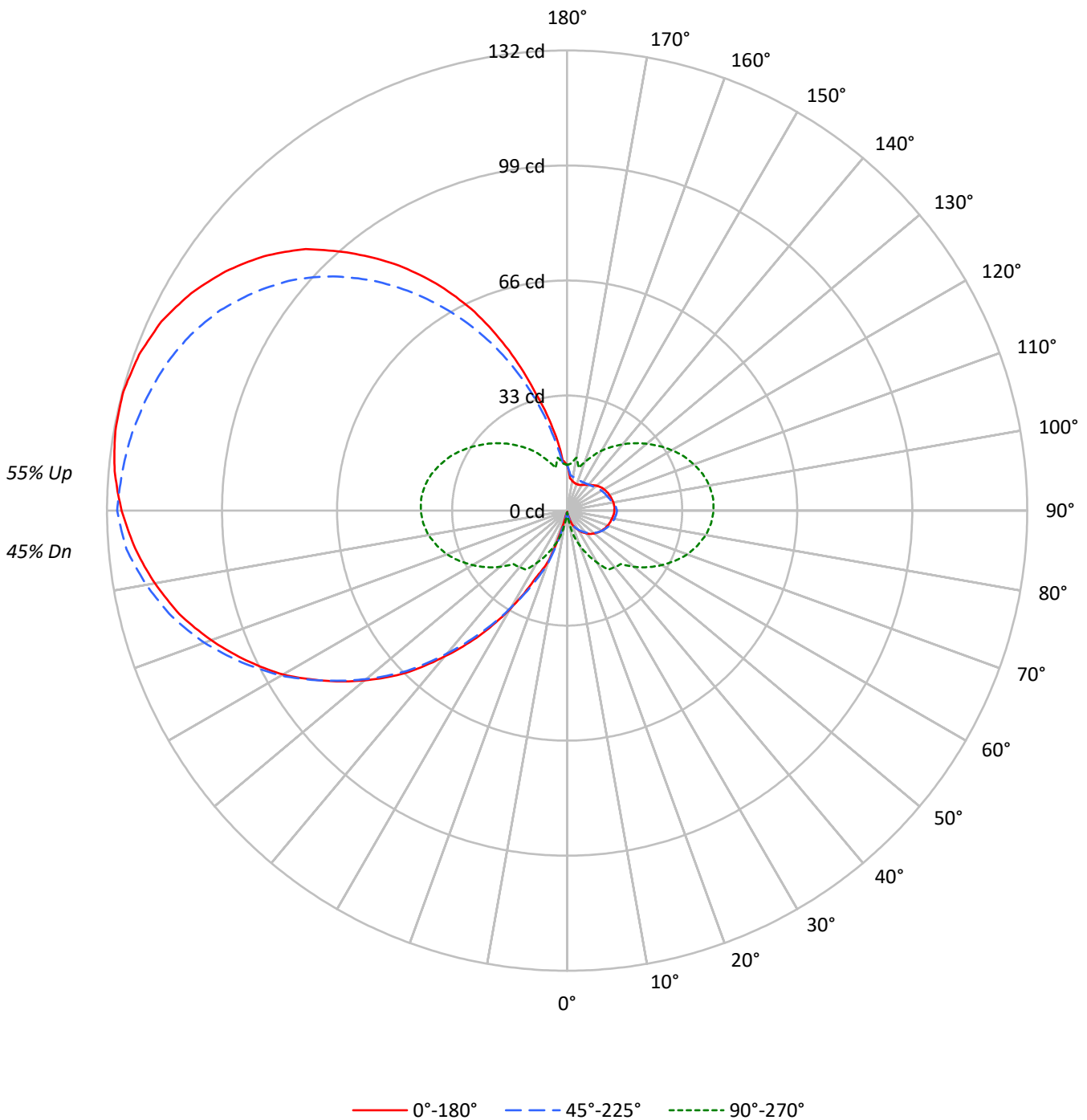
Summary

Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 611.8 lumens
Efficiency: 68.0%
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 12.74 / 10.68 / 11.35
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: General Diffuse

Input Watts (W): 18
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

TEST NUMBER: E395646
CATALOG NUMBER: H2579

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	72	72	72	72	66	66	66	66	55	55	55	45	45	45	35	35	35	31
1	62	57	53	49	56	52	48	45	42	39	37	33	31	29	25	23	22	18
2	55	48	42	37	49	43	38	34	35	31	27	27	24	21	20	17	15	12
3	49	41	34	29	44	37	31	26	29	25	21	22	19	16	16	14	11	8
4	44	35	29	23	40	32	26	21	25	21	17	19	16	13	14	11	9	6
5	40	31	24	19	36	28	22	18	22	18	14	17	13	10	12	9	7	5
6	37	27	21	16	33	25	19	15	20	15	12	15	11	9	11	8	6	4
7	34	24	18	14	30	22	16	12	18	13	10	13	10	7	9	7	5	3
8	31	22	16	12	28	20	14	11	16	12	8	12	9	6	9	6	4	2
9	29	20	14	10	26	18	13	9	14	10	7	11	8	5	8	5	3	2
10	27	18	13	9	24	16	11	8	13	9	6	10	7	5	7	5	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: E395646
 CATALOG NUMBER: H2579

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.1	0.0	0.0
10°-20°	1.6	0.3	0.2
20°-30°	6.9	1.1	0.8
30°-40°	15.5	2.5	1.7
40°-50°	27.1	4.4	3.0
50°-60°	40.1	6.5	4.5
60°-70°	52.8	8.6	5.9
70°-80°	63.3	10.3	7.0
80°-90°	70.1	11.5	7.8
90°-100°	71.7	11.7	8.0
100°-110°	68.4	11.2	7.6
110°-120°	60.9	10.0	6.8
120°-130°	50.2	8.2	5.6
130°-140°	37.6	6.2	4.2
140°-150°	24.8	4.1	2.8
150°-160°	13.8	2.3	1.5
160°-170°	5.6	0.9	0.6
170°-180°	1.3	0.2	0.1
0°-30°	8.6	1.4	1.0
0°-40°	24.1	3.9	2.7
0°-60°	91.3	14.9	10.1
0°-90°	277.5	45.4	30.8
90°-120°	201.0	32.9	22.3
90°-150°	313.6	51.3	34.8
90°-180°	334.0	54.6	37.1
0°-180°	611.8	100.0	68.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	0	0	0	0	0	
5°	0	1	1	1	1	0
15°	2	3	8	6	1	1
25°	5	5	14	23	21	3
35°	8	7	21	42	44	5
45°	10	9	22	65	66	7
55°	11	11	28	85	85	10
65°	12	12	34	103	102	12
75°	13	13	39	117	115	14
85°	13	14	42	127	124	11
90°	14	14	42	129	128	7
95°	14	14	42	128	130	11
105°	13	13	40	125	132	14
115°	13	12	37	119	128	12
125°	12	11	32	109	120	10
135°	10	10	27	95	106	8
145°	9	9	22	76	86	6
155°	8	9	17	54	63	4
165°	8	10	13	31	35	2
175°	9	10	14	13	14	1
180°	13	13	13	13	13	



TEST NUMBER: E395646
 CATALOG NUMBER: H2579

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2.5°	0.4	0.5	0.6	0.7	0.7	0.6	0.7	0.7	0.7
5°	0.4	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.7
7.5°	0.8	0.9	1.2	1.9	2.2	1.2	0.9	0.7	0.7
10°	1.2	1.2	1.6	3.0	3.7	1.8	1.1	0.7	0.7
12.5°	1.6	1.6	2.2	4.0	5.7	5.5	3.4	1.1	0.9
15°	2.0	2.0	2.9	4.9	7.6	9.2	5.7	1.6	1.2
17.5°	3.1	3.0	3.3	6.2	9.1	12.9	10.8	9.0	8.1
20°	4.2	4.0	3.8	7.5	10.7	16.5	15.9	16.4	15.0
22.5°	4.8	4.5	4.6	8.6	12.3	19.1	19.5	19.2	18.1
25°	5.4	5.1	5.3	9.8	14.0	21.7	23.1	22.0	21.2
27.5°	5.9	5.6	5.8	11.0	15.6	24.1	27.5	27.7	26.8
30°	6.5	6.2	6.3	12.1	17.3	26.5	31.9	33.4	32.4
32.5°	7.0	6.7	6.8	13.3	19.0	30.4	37.2	39.2	38.0
35°	7.6	7.2	7.2	14.5	20.7	34.3	42.5	44.9	43.7
37.5°	8.0	7.7	7.7	15.5	20.9	38.4	47.9	50.5	49.1
40°	8.5	8.2	8.2	16.6	21.2	42.5	53.4	56.2	54.6
42.5°	9.0	8.6	8.7	17.6	21.5	46.4	59.2	61.6	60.3
45°	9.5	9.1	9.2	18.7	21.7	50.3	65.0	67.1	66.0
47.5°	9.8	9.5	9.6	19.6	23.4	54.1	70.1	72.7	70.9
50°	10.2	9.9	9.9	20.5	25.1	57.9	75.2	78.2	75.8
52.5°	10.5	10.3	10.4	19.9	26.7	61.9	80.1	83.5	80.5
55°	10.9	10.7	10.8	19.2	28.3	65.8	85.0	88.8	85.1
57.5°	11.2	11.0	11.2	20.0	29.8	69.3	89.9	93.3	89.6
60°	11.5	11.4	11.6	20.9	31.3	72.7	94.7	97.9	94.1
62.5°	11.7	11.7	11.9	21.5	32.7	75.9	98.8	102.3	97.9
65°	12.0	12.0	12.2	22.2	34.1	79.0	103.0	106.7	101.6
67.5°	12.2	12.3	12.5	22.8	35.4	81.8	106.9	110.6	105.2
70°	12.4	12.6	12.8	23.4	36.7	84.6	110.8	114.4	108.7
72.5°	12.6	12.8	13.1	23.1	37.7	87.0	114.1	117.7	111.9
75°	12.8	13.1	13.3	22.8	38.7	89.5	117.4	121.0	115.1
77.5°	12.9	13.3	13.5	22.1	39.5	91.5	120.0	123.9	117.6
80°	13.1	13.5	13.8	21.5	40.4	93.5	122.6	126.7	120.1
82.5°	13.2	13.6	13.9	22.4	40.9	94.9	124.8	129.1	122.3
85°	13.4	13.8	14.1	23.4	41.5	96.4	126.9	131.4	124.4
87.5°	13.5	13.9	14.2	22.2	41.7	97.3	128.0	133.2	126.1
90°	13.5	14.0	14.3	21.0	42.0	98.3	129.1	134.9	127.8
92.5°	13.6	14.0	14.1	21.0	42.0	98.7	128.6	135.9	129.1
95°	13.6	14.0	14.0	20.9	42.0	99.2	128.1	136.9	130.3
97.5°	13.5	13.8	13.6	20.8	41.7	99.0	127.5	137.3	131.0
100°	13.5	13.7	13.2	20.7	41.4	98.9	126.8	137.6	131.6
102.5°	13.3	13.6	12.9	20.5	40.9	98.3	125.8	137.2	131.7
105°	13.2	13.4	12.7	20.2	40.3	97.7	124.9	136.8	131.8
107.5°	13.1	13.2	12.4	19.9	39.5	96.5	123.7	135.5	131.2
110°	12.9	13.0	12.2	19.6	38.7	95.3	122.5	134.3	130.7



TEST NUMBER: E395646
 CATALOG NUMBER: H2579

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	12.8	12.8	12.0	19.2	37.8	93.7	120.9	132.0	129.5
115°	12.6	12.5	11.8	18.8	36.9	92.1	119.2	129.7	128.4
117.5°	12.4	12.3	11.6	18.4	35.8	89.9	117.1	127.1	126.5
120°	12.2	12.0	11.4	18.0	34.6	87.7	114.9	124.6	124.6
122.5°	12.0	11.7	11.1	17.6	33.5	85.1	112.1	121.5	122.1
125°	11.7	11.4	10.9	17.1	32.3	82.4	109.3	118.5	119.6
127.5°	11.4	11.0	10.7	16.6	31.0	79.6	106.1	115.1	116.6
130°	11.1	10.7	10.4	16.1	29.8	76.7	102.9	111.7	113.5
132.5°	10.7	10.3	10.2	15.5	28.6	73.3	99.0	107.6	109.8
135°	10.3	10.0	10.0	14.9	27.3	70.0	95.0	103.4	106.1
137.5°	10.0	9.7	9.8	14.4	26.1	66.4	90.5	98.5	101.2
140°	9.6	9.4	9.7	13.9	24.8	62.9	86.0	93.5	96.4
142.5°	9.3	9.1	9.6	13.3	23.5	59.0	81.0	88.0	91.4
145°	9.0	8.8	9.4	12.8	22.3	55.0	75.9	82.4	86.4
147.5°	8.7	8.6	9.4	13.4	21.1	50.9	70.6	76.7	80.8
150°	8.5	8.4	9.3	14.1	19.9	46.8	65.3	71.0	75.2
152.5°	8.3	8.3	9.3	14.6	18.6	42.6	59.7	65.0	69.1
155°	8.1	8.3	9.3	15.2	17.2	38.3	54.1	58.9	62.9
157.5°	8.1	8.3	9.3	14.6	16.0	34.2	48.3	52.4	55.9
160°	8.1	8.3	9.4	13.9	14.8	30.0	42.5	45.9	48.9
162.5°	8.1	8.4	9.5	13.4	13.7	26.2	36.8	39.6	41.8
165°	8.2	8.5	9.6	12.8	12.7	22.4	31.1	33.3	34.8
167.5°	8.4	8.7	9.7	12.4	14.0	19.1	25.9	27.8	29.5
170°	8.6	8.9	9.8	12.0	15.4	15.8	20.7	22.3	24.2
172.5°	9.0	9.2	10.0	12.1	14.5	15.9	16.8	17.7	19.4
175°	9.3	9.4	10.2	12.2	13.6	16.0	13.0	13.1	14.5
177.5°	11.2	11.2	11.6	12.6	13.3	14.5	13.0	13.1	13.8
180°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1

(END OF REPORT)