

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: H22135

Luminaire Tested: **H7UICT-424P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H22135
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7UICT-424P
Description: HALO 6" DIA RECESSED WALL WASH
DIFFUSED REFLECTOR WITH SPECULAR SCOOP
Light Source: 60A19 60 WATTS 870 LUMENS
A19 INSIDE FROSTED
Ballast/Driver: -

Summary

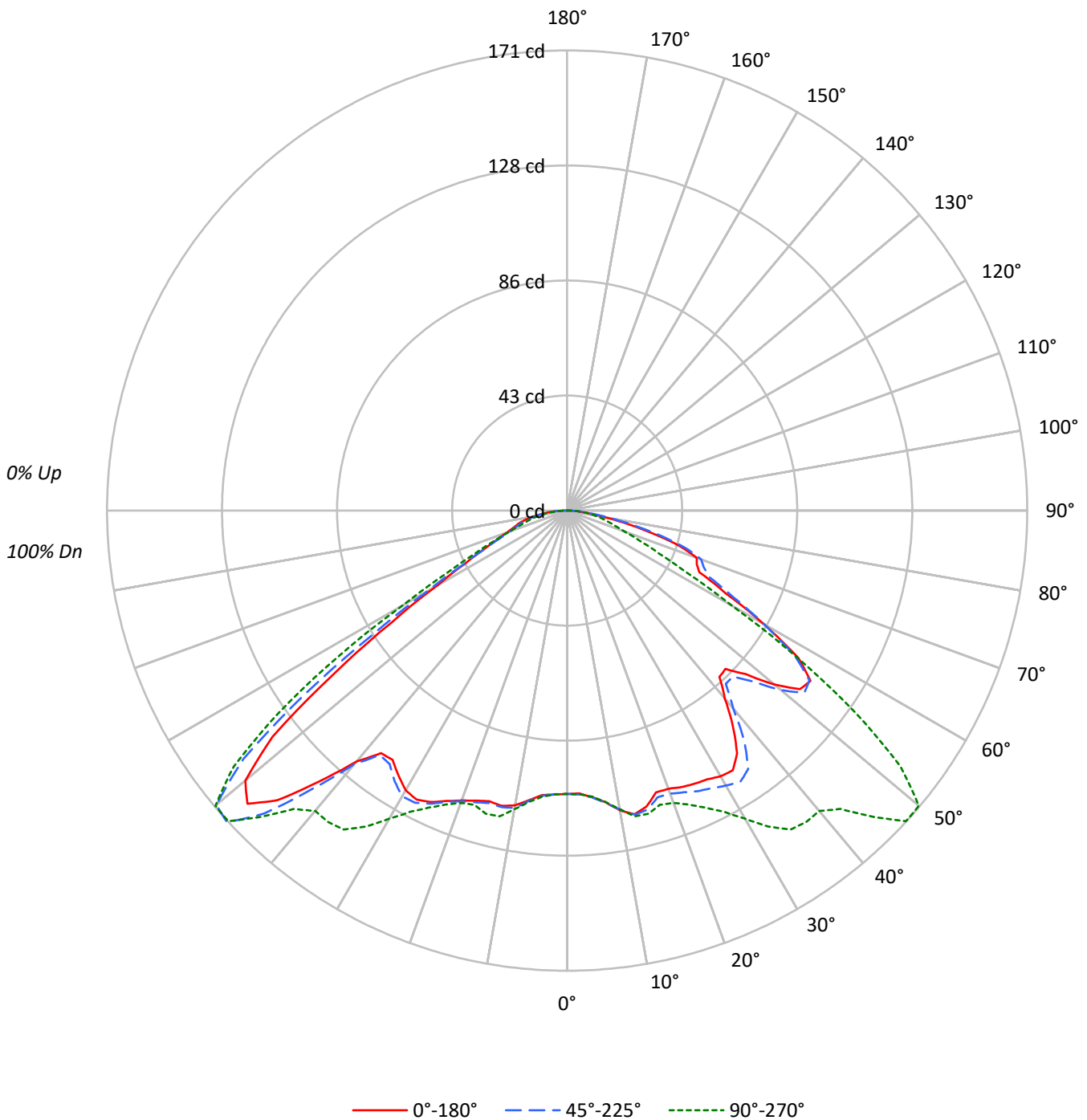
Lumens per Lamp: 870 (1 lamp)
Luminaire Lumens: 452.2 lumens
Efficiency: 52.0%
Efficacy: 7.5 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 2.18 / 1.91
Luminous Opening: (L: 0 ' x W: -0.41 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 60
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	62	62	62	62	60	60	60	60	58	58	58	55	55	55	53	53	53	52
1	57	54	52	50	55	53	51	49	51	49	48	49	47	46	47	46	45	44
2	51	47	43	40	50	46	43	40	44	41	39	42	40	38	41	39	37	36
3	47	41	37	33	45	40	36	33	39	35	32	37	34	32	36	33	31	30
4	42	36	31	28	41	35	31	27	34	30	27	33	29	27	32	29	26	25
5	39	32	27	23	38	31	27	23	30	26	23	29	25	23	28	25	22	21
6	35	28	23	20	34	28	23	20	27	23	20	26	22	20	25	22	19	18
7	33	25	21	17	32	25	20	17	24	20	17	23	20	17	23	19	17	16
8	30	23	18	15	29	23	18	15	22	18	15	21	18	15	21	17	15	14
9	28	21	16	13	27	21	16	13	20	16	13	19	16	13	19	16	13	12
10	26	19	15	12	26	19	15	12	18	15	12	18	14	12	17	14	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.4	2.3	1.2
10°-20°	32.2	7.1	3.7
20°-30°	54.8	12.1	6.3
30°-40°	75.3	16.7	8.7
40°-50°	98.3	21.7	11.3
50°-60°	101.4	22.4	11.7
60°-70°	47.6	10.5	5.5
70°-80°	25.5	5.6	2.9
80°-90°	6.7	1.5	0.8
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°	97.4	21.5	11.2
0°-40°	172.7	38.2	19.9
0°-60°	372.4	82.4	42.8
0°-90°	452.2	100.0	52.0
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°	452.2	100.0	52.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	105	105	105	105	105	
5°	107	107	107	106	106	10
15°	114	115	117	112	112	32
25°	112	115	122	120	120	52
35°	110	117	145	115	113	67
45°	83	87	161	159	152	68
55°	110	110	131	119	106	93
65°	54	58	38	34	34	59
75°	33	36	16	18	19	35
85°	5	6	5	6	7	6
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	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°
0°	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3
2.5°	105.2	105.8	105.6	105.7	105.5	105.6	105.5	105.5	105.6
5°	106.9	106.8	107.0	106.9	106.7	106.7	106.4	106.2	106.1
7.5°	109.3	109.4	109.5	109.4	109.2	109.0	108.8	108.7	108.5
10°	113.1	113.3	112.8	113.2	112.7	112.3	112.2	111.7	111.2
12.5°	115.6	115.7	115.7	116.3	116.4	114.0	112.9	112.6	112.4
15°	113.9	114.5	115.1	116.2	116.6	113.8	112.5	112.1	111.8
17.5°	109.8	110.5	111.7	113.7	114.6	114.1	113.6	113.3	113.0
20°	110.0	110.7	111.9	114.0	115.6	115.6	114.9	114.9	114.6
22.5°	111.2	111.7	113.3	116.5	118.2	118.2	117.1	117.2	116.8
25°	112.0	112.8	115.0	119.2	121.8	121.7	120.2	119.8	119.5
27.5°	112.6	113.4	116.3	122.1	126.2	124.8	122.4	121.3	121.1
30°	114.0	114.8	118.0	125.9	132.2	126.1	122.6	120.7	120.0
32.5°	114.5	115.1	119.6	130.1	139.2	124.3	119.3	117.4	116.7
35°	110.1	111.4	117.3	132.9	144.7	121.4	115.0	113.6	113.1
37.5°	101.3	102.2	108.3	128.7	145.9	120.4	114.4	113.1	113.6
40°	91.2	90.3	96.0	120.8	145.7	127.9	122.9	120.3	121.6
42.5°	83.8	81.8	87.3	116.2	150.3	144.7	140.4	135.0	136.6
45°	83.2	80.8	87.1	119.5	160.9	164.4	159.2	151.3	152.2
47.5°	89.9	86.8	94.1	127.8	170.8	76.2	171.4	160.5	161.2
50°	100.6	96.1	103.8	135.4	170.6	176.8	170.2	156.5	156.1
52.5°	109.0	104.0	111.2	137.3	156.2	158.9	151.7	137.9	138.0
55°	110.4	105.0	109.9	131.3	130.6	126.3	119.1	108.0	106.0
57.5°	101.8	97.6	100.2	115.8	100.7	91.6	85.4	78.2	77.4
60°	84.3	82.3	84.5	93.9	70.7	64.1	59.9	55.7	55.9
62.5°	66.3	65.5	69.6	74.6	50.5	46.2	43.9	42.1	42.8
65°	54.2	53.2	58.0	59.1	37.5	34.5	33.7	33.1	34.3
67.5°	52.1	50.4	54.9	54.0	29.0	27.1	27.1	27.1	28.2
70°	51.2	49.6	53.0	51.0	22.6	22.0	22.4	22.8	23.6
72.5°	44.0	43.6	46.0	43.0	18.4	18.5	19.7	20.2	20.7
75°	33.2	33.5	35.6	32.3	15.5	16.2	17.6	18.0	18.6
77.5°	23.0	23.7	25.5	21.2	13.0	13.8	15.0	15.4	16.0
80°	14.1	15.0	16.2	13.6	10.4	10.9	11.6	11.6	12.6
82.5°	8.5	8.9	9.9	9.9	8.0	8.5	9.2	9.3	9.6
85°	5.0	5.2	6.0	6.0	5.3	6.0	6.4	6.5	6.7
87.5°	2.6	2.7	3.0	3.2	3.0	3.3	3.3	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)