

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: E395759

Luminaire Tested: **H7-303**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395759
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-303
Description: HALO RECESSED INC - H7 HOUSING, WALL WASH
Light Source: 60A19, 870 LUMENS
Ballast/Driver: -

Summary

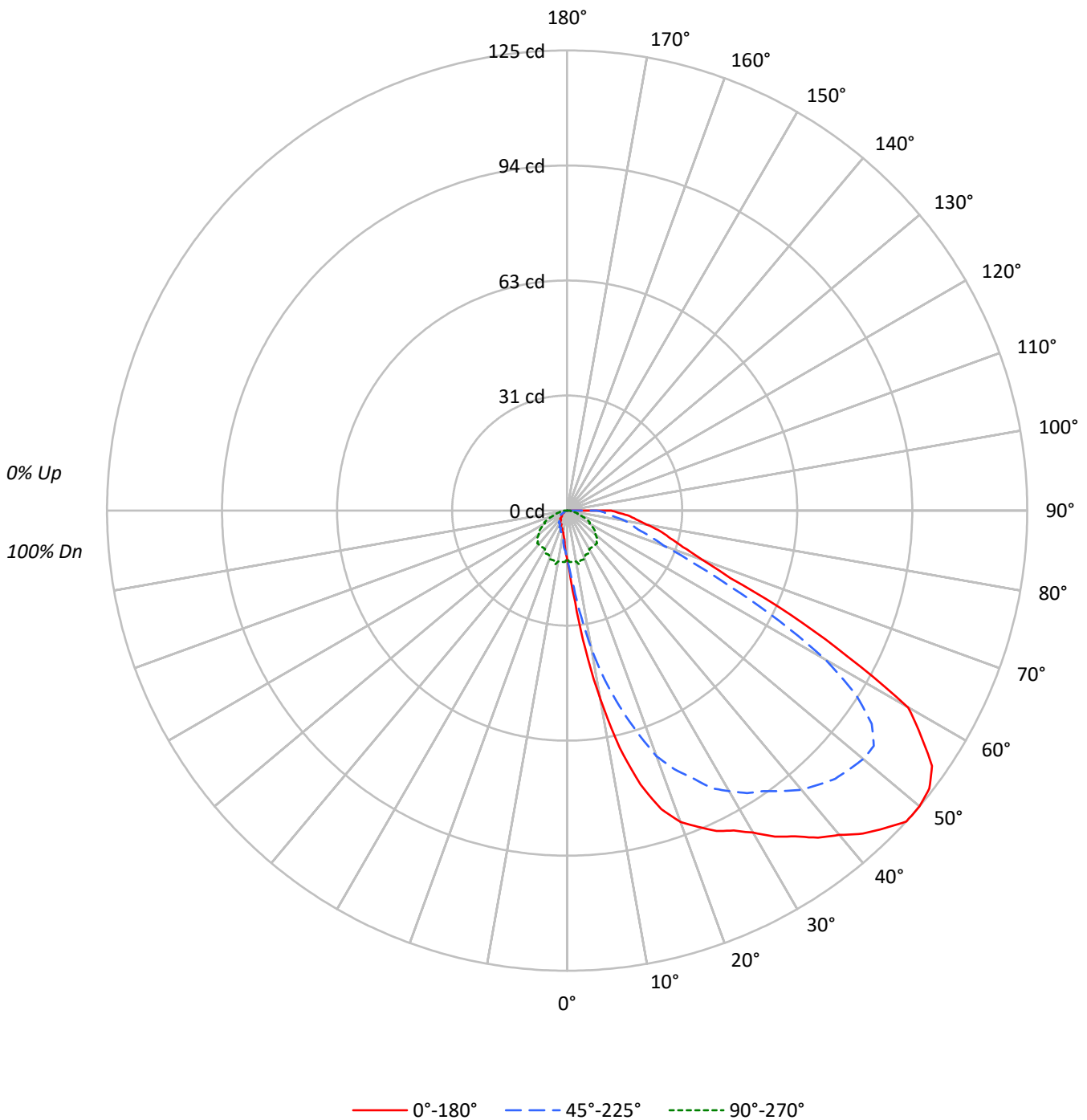
Lumens per Lamp: 870 (1 lamp)
Luminaire Lumens: 165.9 lumens
Efficiency: 19.1%
Efficacy: 2.8 lumens/watt
Spacing Criteria (0/90/45): 3.5 / 1.42 / 2.72
Luminous Opening: (L: 0 ' x W: -0.3 ' x H: 0 '
CIE Type: Direct

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	23	23	23	23	22	22	22	22	21	21	21	20	20	20	19	19	19	19
1	20	19	19	18	20	19	18	17	18	18	17	17	17	16	17	16	16	15
2	18	17	15	14	18	16	15	14	16	15	14	15	14	13	14	14	13	12
3	17	14	13	11	16	14	12	11	13	12	11	13	12	11	12	11	11	10
4	15	13	11	9	15	12	11	9	12	10	9	11	10	9	11	10	9	8
5	14	11	9	8	13	11	9	8	10	9	8	10	9	7	10	8	7	7
6	12	10	8	7	12	10	8	6	9	8	6	9	7	6	8	7	6	6
7	11	9	7	6	11	8	7	6	8	7	5	8	6	5	8	6	5	5
8	11	8	6	5	10	8	6	5	7	6	5	7	6	5	7	6	5	4
9	10	7	5	4	9	7	5	4	7	5	4	6	5	4	6	5	4	4
10	9	6	5	4	9	6	5	4	6	5	4	6	5	4	6	4	4	3

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°	1.7	1.0	0.2
10°-20°	8.3	5.0	1.0
20°-30°	17.0	10.2	2.0
30°-40°	26.1	15.7	3.0
40°-50°	35.1	21.2	4.0
50°-60°	38.4	23.1	4.4
60°-70°	23.0	13.9	2.6
70°-80°	10.5	6.3	1.2
80°-90°	5.9	3.5	0.7
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°	27.0	16.3	3.1
0°-40°	53.0	32.0	6.1
0°-60°	126.6	76.3	14.5
0°-90°	165.9	100.0	19.1
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°	165.9	100.0	19.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	25	21	14	10	8	3
15°	77	55	14	6	5	22
25°	96	80	13	5	4	44
35°	108	93	12	4	3	68
45°	122	103	11	3	2	94
55°	121	101	9	2	1	106
65°	67	49	6	1	1	68
75°	29	20	3	0	0	31
85°	17	11	1	0	0	18
90°	12	8	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	22.5°	25°	35°	45°	55°	65°	67.5°	75°
0°	13	13	13	13	13	13	13	13	13	13	13
2.5°	17	16	16	16	16	16	16	15	15	15	14
5°	25	25	24	24	24	23	21	19	17	17	16
7.5°	38	37	36	36	35	32	29	25	22	20	18
10°	52	52	49	43	47	43	38	32	26	24	20
12.5°	66	64	63	60	59	54	47	39	30	28	22
15°	77	76	75	72	71	64	55	45	34	32	24
17.5°	85	84	83	80	79	73	63	51	38	34	26
20°	90	89	88	86	85	79	71	56	41	37	27
22.5°	93	92	91	89	89	84	76	62	44	40	27
25°	96	95	93	92	91	87	80	67	47	42	28
27.5°	98	97	96	94	94	90	85	72	51	46	29
30°	101	101	99	97	97	93	88	77	55	49	30
32.5°	105	104	103	100	99	96	91	82	59	52	31
35°	108	108	106	104	103	98	93	85	62	55	32
37.5°	112	111	109	107	106	101	96	88	66	57	33
40°	115	115	113	110	110	104	99	91	68	60	34
42.5°	119	118	117	114	113	107	101	93	71	62	34
45°	122	121	120	117	116	110	103	94	73	64	34
47.5°	125	124	122	119	118	112	104	96	74	65	33
50°	125	124	123	120	119	113	105	96	75	65	32
52.5°	124	123	122	119	119	113	105	95	74	64	31
55°	121	120	118	116	116	110	101	91	71	61	29
57.5°	114	114	112	110	108	103	93	84	64	55	26
60°	107	101	99	97	95	90	81	71	54	46	22
62.5°	86	86	82	80	78	73	65	55	42	37	19
65°	67	66	64	63	60	55	49	40	31	28	16
67.5°	48	50	49	45	45	41	37	29	22	20	13
70°	39	39	38	37	36	33	28	23	17	16	11
72.5°	33	33	32	31	30	27	24	19	15	13	10
75°	29	29	28	27	27	24	20	17	13	12	9
77.5°	26	25	24	23	23	21	18	15	11	10	8
80°	22	22	21	20	20	18	16	13	10	9	7
82.5°	19	19	18	17	17	15	13	11	8	8	6
85°	17	16	16	15	15	13	11	9	7	6	5
87.5°	14	14	13	13	13	11	10	8	6	5	4
90°	12	12	11	11	11	10	8	6	5	4	3



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CANDELA DISTRIBUTION (continued):

	85°	90°	112.5°	135°	157.5°	180°
0°	13	13	13	13	13	13
2.5°	14	14	13	11	11	11
5°	15	14	11	10	9	8
7.5°	15	14	10	8	7	7
10°	16	14	9	7	6	6
12.5°	17	15	8	7	6	6
15°	17	14	8	6	5	5
17.5°	17	14	7	6	5	5
20°	17	14	7	5	5	5
22.5°	17	13	6	5	4	4
25°	17	13	6	5	4	4
27.5°	16	13	6	4	4	4
30°	16	12	5	4	4	4
32.5°	16	12	5	4	3	3
35°	16	12	5	4	3	3
37.5°	16	12	5	3	3	3
40°	16	12	4	3	3	3
42.5°	16	12	4	3	3	2
45°	15	11	4	3	2	2
47.5°	15	11	3	2	2	2
50°	14	10	3	2	2	2
52.5°	13	10	3	2	2	2
55°	12	9	2	2	1	1
57.5°	11	8	2	2	1	1
60°	10	7	2	1	1	1
62.5°	9	7	2	1	1	1
65°	8	6	1	1	1	1
67.5°	7	5	1	1	1	0
70°	6	4	1	1	0	0
72.5°	5	3	1	0	0	0
75°	5	3	1	0	0	0
77.5°	4	2	1	0	0	0
80°	4	2	0	0	0	0
82.5°	3	1	0	0	0	0
85°	2	1	0	0	0	0
87.5°	2	1	0	0	0	0
90°	1	0	0	0	0	0

(END OF REPORT)