

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: E395901

Luminaire Tested: **H7-79**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395901
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-79
Description: HALO RECESSED INC. - H7 HOUSING, 2" PINHOLE
Light Source: 50PAR30NSP, 624 LUMENS
Ballast/Driver: -

Summary

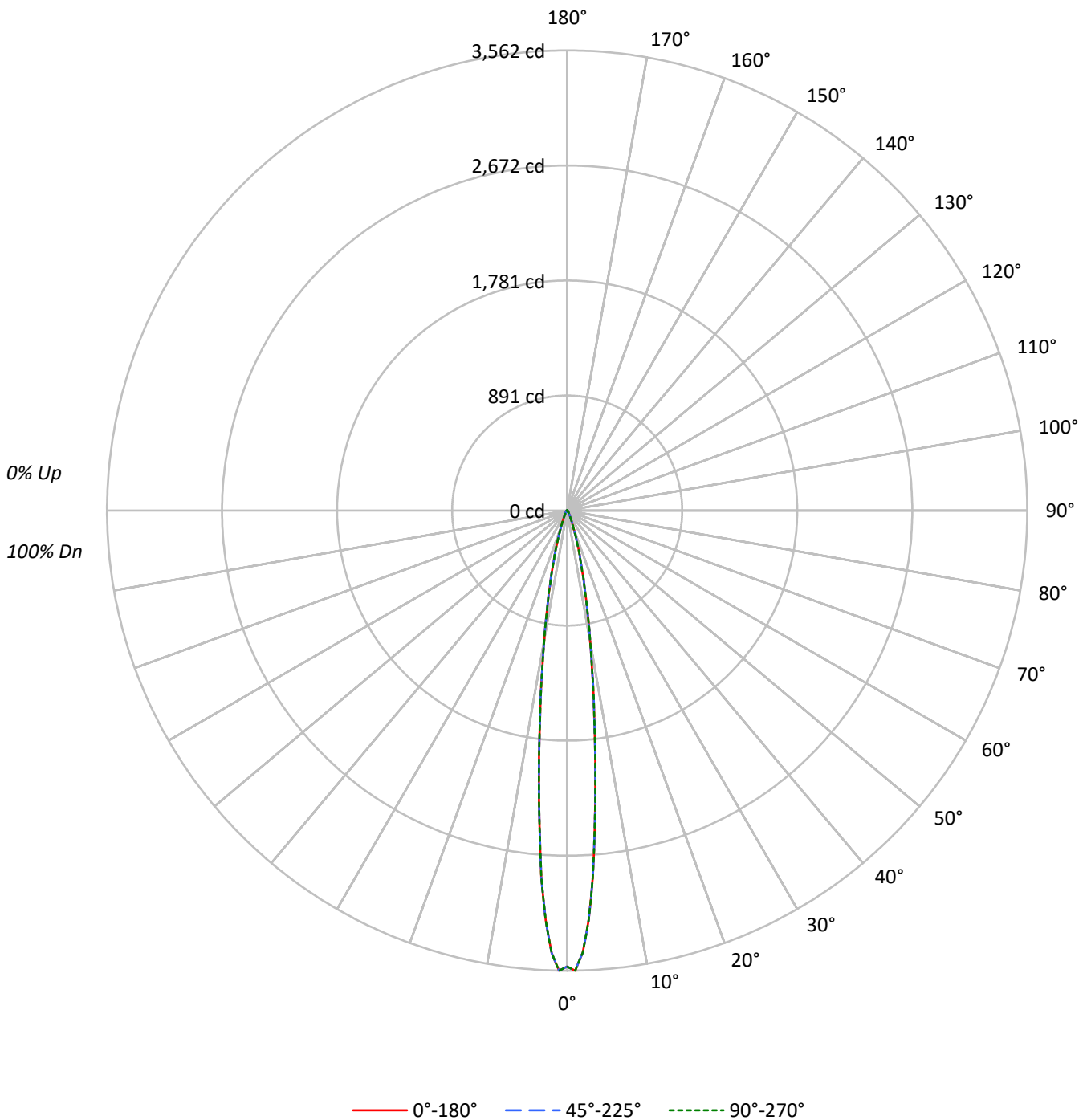
Lumens per Lamp: 624 (1 lamp)
Luminaire Lumens: 363.0 lumens
Efficiency: 58.2%
Efficacy: 7.3 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.26
Luminous Opening: (L: 0 ' x W: -0.17 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 50
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: E395901
CATALOG NUMBER: H7-79

Luminous Intensity Polar Plot





TEST NUMBER: E395901
 CATALOG NUMBER: H7-79

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	69	69	69	69	68	68	68	68	65	65	65	62	62	62	59	59	59	58	58	58	58
1	67	66	65	64	66	65	64	63	62	61	61	60	60	59	58	58	57	56	56	56	56
2	65	63	61	60	64	62	60	59	60	59	58	58	57	57	57	56	55	55	55	55	55
3	63	60	58	57	62	60	58	56	58	57	55	57	56	55	56	55	54	54	54	54	54
4	61	58	56	54	60	58	56	54	57	55	53	55	54	53	54	53	52	52	52	52	52
5	60	56	54	53	59	56	54	52	55	53	52	54	53	51	53	52	51	51	51	51	51
6	58	55	53	51	57	54	52	51	54	52	50	53	51	50	52	51	50	50	50	50	50
7	57	53	51	50	56	53	51	49	52	51	49	52	50	49	51	50	49	49	49	49	49
8	56	52	50	48	55	52	50	48	51	49	48	51	49	48	50	49	48	48	48	48	48
9	54	51	49	47	54	51	49	47	50	48	47	50	48	47	49	48	47	47	47	47	47
10	53	50	48	46	53	50	48	46	49	47	46	49	47	46	49	47	46	46	46	46	46

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°			



TEST NUMBER: E395901
 CATALOG NUMBER: H7-79

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	185.2	51.0	29.7
10°-20°	118.8	32.7	19.0
20°-30°	31.4	8.7	5.0
30°-40°	11.7	3.2	1.9
40°-50°	6.3	1.7	1.0
50°-60°	4.5	1.2	0.7
60°-70°	3.0	0.8	0.5
70°-80°	1.8	0.5	0.3
80°-90°	0.3	0.1	0.0
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°	335.4	92.4	53.8
0°-40°	347.1	95.6	55.6
0°-60°	357.9	98.6	57.4
0°-90°	363.0	100.0	58.2
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°	363.0	100.0	58.2

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3531	3531	3531	3531	3531	
5°	2449	2449	2449	2449	2449	185
15°	397	397	397	397	397	119
25°	61	61	61	61	61	31
35°	18	18	18	18	18	12
45°	8	8	8	8	8	6
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: E395901
 CATALOG NUMBER: H7-79

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3531	3531	3531	3531	3531	3531	3531	3531	3531
1°	3562	3562	3562	3562	3562	3562	3562	3562	3562
2°	3424	3424	3424	3424	3424	3424	3424	3424	3424
3°	3176	3176	3176	3176	3176	3176	3176	3176	3176
4°	2851	2851	2851	2851	2851	2851	2851	2851	2851
5°	2449	2449	2449	2449	2449	2449	2449	2449	2449
6°	2089	2089	2089	2089	2089	2089	2089	2089	2089
7°	1748	1748	1748	1748	1748	1748	1748	1748	1748
8°	1473	1473	1473	1473	1473	1473	1473	1473	1473
9°	1231	1231	1231	1231	1231	1231	1231	1231	1231
10°	1025	1025	1025	1025	1025	1025	1025	1025	1025
11°	862	862	862	862	862	862	862	862	862
12°	713	713	713	713	713	713	713	713	713
13°	592	592	592	592	592	592	592	592	592
14°	485	485	485	485	485	485	485	485	485
15°	397	397	397	397	397	397	397	397	397
17.5°	239	239	239	239	239	239	239	239	239
20°	145	145	145	145	145	145	145	145	145
22.5°	91	91	91	91	91	91	91	91	91
25°	61	61	61	61	61	61	61	61	61
27.5°	44	44	44	44	44	44	44	44	44
30°	31	31	31	31	31	31	31	31	31
32.5°	23	23	23	23	23	23	23	23	23
35°	18	18	18	18	18	18	18	18	18
37.5°	14	14	14	14	14	14	14	14	14
40°	11	11	11	11	11	11	11	11	11
45°	8	8	8	8	8	8	8	8	8
50°	6	6	6	6	6	6	6	6	6
55°	5	5	5	5	5	5	5	5	5
60°	4	4	4	4	4	4	4	4	4
65°	3	3	3	3	3	3	3	3	3
70°	2	2	2	2	2	2	2	2	2
75°	2	2	2	2	2	2	2	2	2
80°	1	1	1	1	1	1	1	1	1
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)