

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: E395896

Luminaire Tested: **H7-79**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395896
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: 50R20FL, 440 LUMENS
Ballast/Driver: -

Summary

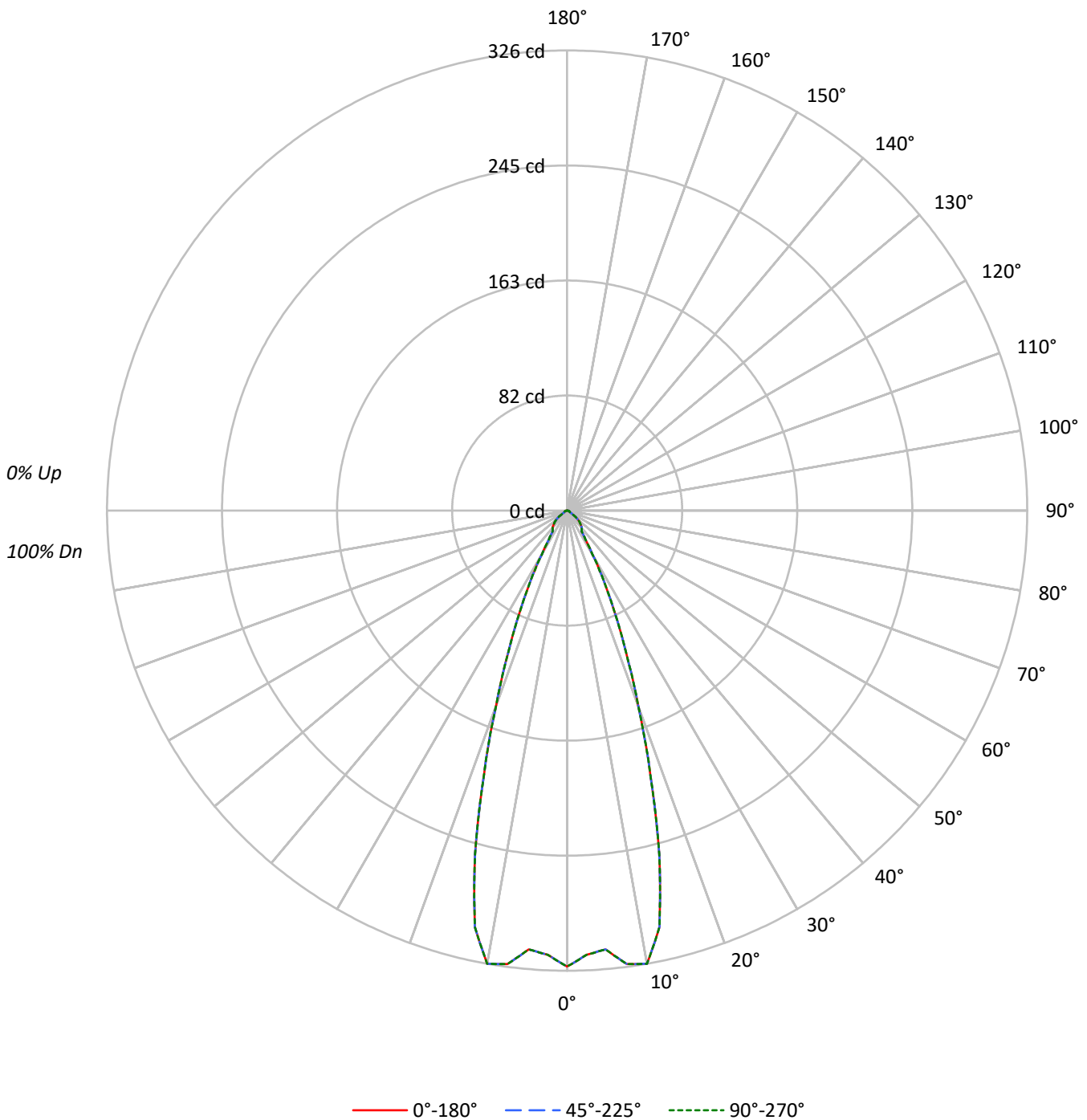
Lumens per Lamp: 440 (1 lamp)
Luminaire Lumens: 166.9 lumens
Efficiency: 37.9%
Efficacy: 3.3 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.6
Luminous Opening: (L: 0 ' x W: -0.17 ' x H: 0 '
CIE Type: Direct

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



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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	45	45	45	45	44	44	44	44	42	42	42		40	40	40		39	39	39	38
1	43	42	41	40	42	41	41	40	40	39	39		38	38	37		37	37	36	36
2	41	39	38	37	40	39	37	36	38	36	36		36	36	35		35	35	34	33
3	39	37	35	34	39	37	35	34	36	34	33		35	34	33		34	33	32	32
4	38	35	33	32	37	35	33	31	34	32	31		33	32	31		32	31	30	30
5	36	33	31	30	35	33	31	29	32	30	29		31	30	29		31	30	29	28
6	35	31	29	28	34	31	29	28	31	29	28		30	29	27		30	28	27	27
7	33	30	28	26	33	30	28	26	29	28	26		29	27	26		28	27	26	25
8	32	29	27	25	31	28	26	25	28	26	25		28	26	25		27	26	25	24
9	31	27	25	24	30	27	25	24	27	25	24		27	25	24		26	25	24	23
10	29	26	24	23	29	26	24	23	26	24	23		25	24	23		25	24	23	22

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°	30.6	18.3	6.9
10°-20°	67.1	40.2	15.3
20°-30°	37.5	22.4	8.5
30°-40°	13.1	7.9	3.0
40°-50°	10.2	6.1	2.3
50°-60°	4.9	2.9	1.1
60°-70°	2.0	1.2	0.5
70°-80°	1.2	0.7	0.3
80°-90°	0.4	0.2	0.1
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°	135.2	81.0	30.7
0°-40°	148.3	88.8	33.7
0°-60°	163.4	97.9	37.1
0°-90°	166.9	100.0	37.9
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°	166.9	100.0	37.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	323	323	323	323	323	
5°	312	312	312	312	312	31
15°	252	252	252	252	252	67
25°	80	80	80	80	80	37
35°	18	18	18	18	18	13
45°	13	13	13	13	13	10
55°	5	5	5	5	5	5
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	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°	323	323	323	323	323	323	323	323	323
2.5°	315	315	315	315	315	315	315	315	315
5°	312	312	312	312	312	312	312	312	312
7.5°	324	324	324	324	324	324	324	324	324
10°	326	326	326	326	326	326	326	326	326
12.5°	302	302	302	302	302	302	302	302	302
15°	252	252	252	252	252	252	252	252	252
17.5°	196	196	196	196	196	196	196	196	196
20°	147	147	147	147	147	147	147	147	147
22.5°	109	109	109	109	109	109	109	109	109
25°	80	80	80	80	80	80	80	80	80
27.5°	56	56	56	56	56	56	56	56	56
30°	36	36	36	36	36	36	36	36	36
32.5°	24	24	24	24	24	24	24	24	24
35°	18	18	18	18	18	18	18	18	18
37.5°	17	17	17	17	17	17	17	17	17
40°	16	16	16	16	16	16	16	16	16
42.5°	15	15	15	15	15	15	15	15	15
45°	13	13	13	13	13	13	13	13	13
47.5°	12	12	12	12	12	12	12	12	12
50°	10	10	10	10	10	10	10	10	10
52.5°	8	8	8	8	8	8	8	8	8
55°	5	5	5	5	5	5	5	5	5
57.5°	3	3	3	3	3	3	3	3	3
60°	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2
67.5°	2	2	2	2	2	2	2	2	2
70°	2	2	2	2	2	2	2	2	2
72.5°	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1
82.5°	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)