

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: E395167

Luminaire Tested: **H7-400**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395167
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-400
Description: HALO RECESSED INC. H7 HOUSING, CLEAR REFLECTOR
Light Source: H7-400
Ballast/Driver: -

Summary

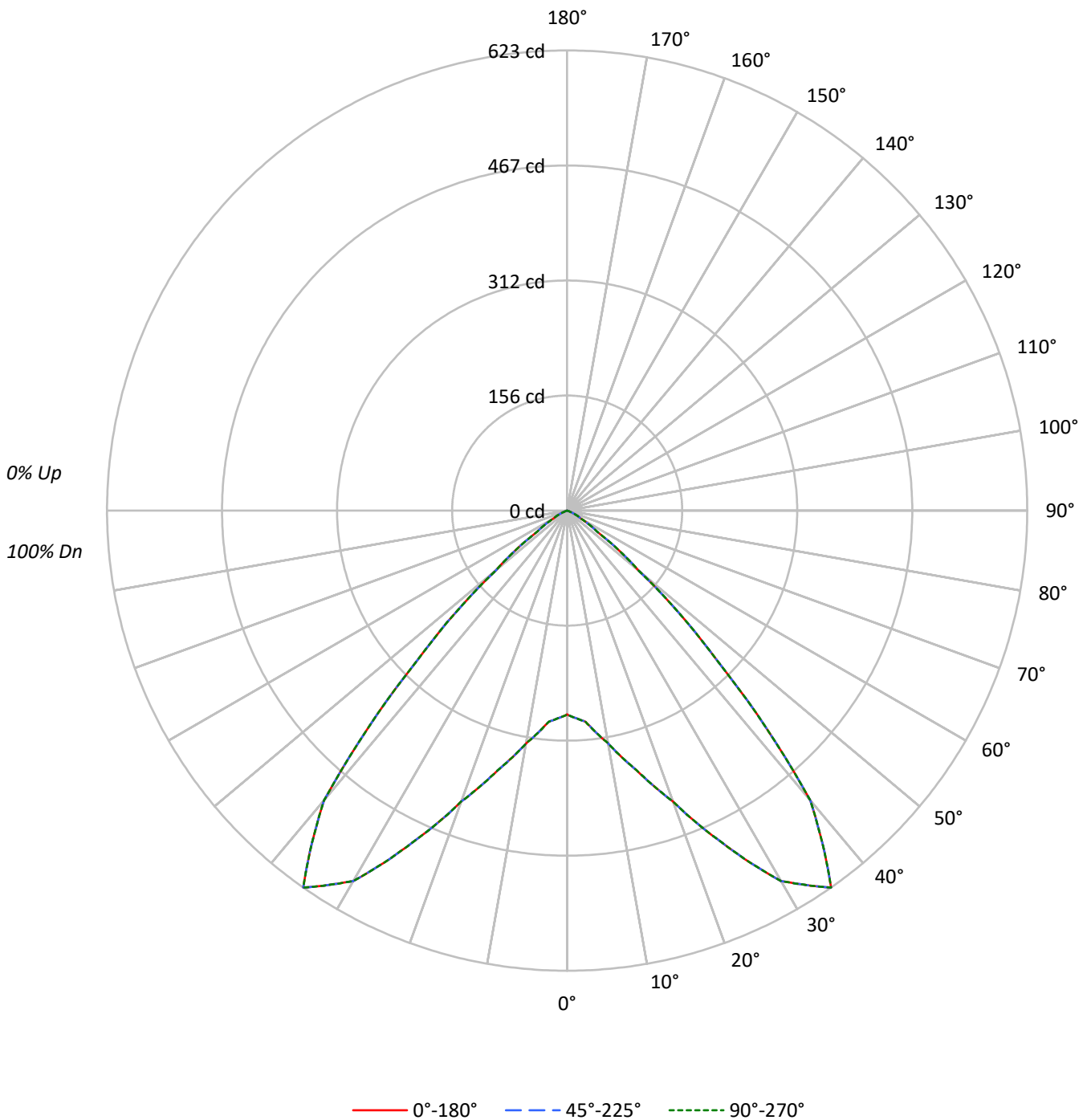
Lumens per Lamp: 1750 (1 lamp)
Luminaire Lumens: 1028.6 lumens
Efficiency: 58.8%
Efficacy: 10.3 lumens/watt
Spacing Criteria (0/90/45): 1.89 / 1.89 / 1.52
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 100
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	70	70	70	70	68	68	68	68	65	65	65		63	63	63		60	60	60	59
1	66	64	62	61	64	63	61	60	60	59	58		58	57	56		56	55	54	53
2	62	58	55	53	60	57	54	52	55	53	51		53	51	50		51	50	49	48
3	57	52	49	46	56	52	48	45	50	47	45		48	46	44		47	45	43	42
4	53	48	43	40	52	47	43	40	45	42	40		44	41	39		43	41	39	37
5	49	43	39	36	48	43	38	35	41	38	35		40	37	35		39	37	34	33
6	46	39	35	32	45	39	35	31	38	34	31		37	34	31		36	33	31	30
7	43	36	31	28	42	35	31	28	35	31	28		34	30	28		33	30	28	27
8	40	33	28	25	39	32	28	25	32	28	25		31	27	25		30	27	25	24
9	37	30	26	23	36	30	26	23	29	25	23		28	25	22		28	25	22	21
10	35	28	23	21	34	27	23	20	27	23	20		26	23	20		26	23	20	19

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°	28.4	2.8	1.6
10°-20°	105.1	10.2	6.0
20°-30°	232.0	22.6	13.3
30°-40°	366.4	35.6	20.9
40°-50°	231.4	22.5	13.2
50°-60°	54.5	5.3	3.1
60°-70°	10.8	1.1	0.6
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	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°	365.6	35.5	20.9
0°-40°	731.9	71.2	41.8
0°-60°	1017.8	98.9	58.2
0°-90°	1028.6	100.0	58.8
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°	1028.6	100.0	58.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	276	276	276	276	276	
5°	287	287	287	287	287	28
15°	364	364	364	364	364	105
25°	496	496	496	496	496	232
35°	623	623	623	623	623	366
45°	287	287	287	287	287	231
55°	49	49	49	49	49	54
65°	11	11	11	11	11	11
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	276	276	276	276	276	276	276
5°	287	287	287	287	287	287	287
10°	320	320	320	320	320	320	320
15°	364	364	364	364	364	364	364
20°	419	419	419	419	419	419	419
25°	496	496	496	496	496	496	496
30°	579	579	579	579	579	579	579
35°	623	623	623	623	623	623	623
40°	512	512	512	512	512	512	512
45°	287	287	287	287	287	287	287
50°	126	126	126	126	126	126	126
55°	49	49	49	49	49	49	49
60°	22	22	22	22	22	22	22
65°	11	11	11	11	11	11	11
70°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0

(END OF REPORT)