

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: E395718

Luminaire Tested: **H7-302**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395718
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-302
Description: HALO RECESSED INC - H7 HOUSING, LOUVERED TRIM
Light Source: 75R30SP, 900 LUMENS
Ballast/Driver: -

Summary

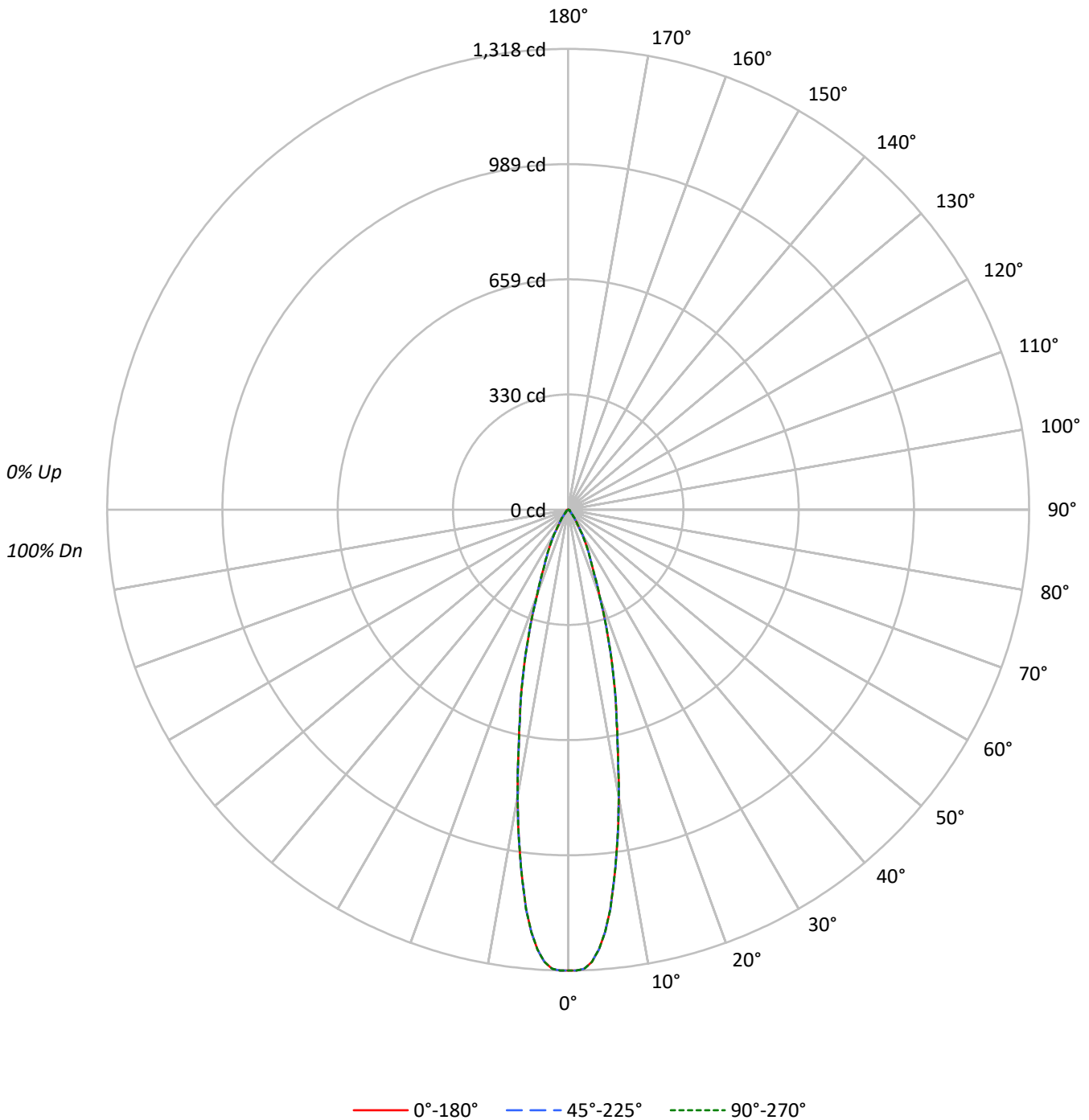
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 353.1 lumens
Efficiency: 39.2%
Efficacy: 4.7 lumens/watt
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.44
Luminous Opening: (L: 0 ' x W: -0.32 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
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	47	47	47	47	46	46	46	46	44	44	44		42	42	42		40	40	40	39
1	45	44	43	42	44	43	42	42	41	41	40		40	40	39		39	38	38	37
2	43	41	40	39	42	41	40	38	40	39	38		38	38	37		37	37	36	36
3	41	39	38	36	41	39	37	36	38	37	36		37	36	35		36	35	34	34
4	40	37	36	34	39	37	35	34	36	35	34		35	34	33		35	34	33	32
5	38	36	34	33	38	35	34	32	35	33	32		34	33	32		34	32	32	31
6	37	34	32	31	37	34	32	31	33	32	31		33	32	31		33	31	30	30
7	36	33	31	30	35	33	31	30	32	31	30		32	30	29		31	30	29	29
8	35	32	30	29	34	32	30	29	31	30	28		31	29	28		30	29	28	28
9	34	31	29	28	33	30	29	28	30	29	27		30	28	27		30	28	27	27
10	33	30	28	27	32	30	28	27	29	28	27		29	28	27		29	27	26	26

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°	102.7	29.1	11.4
10°-20°	138.1	39.1	15.3
20°-30°	67.5	19.1	7.5
30°-40°	23.6	6.7	2.6
40°-50°	7.9	2.2	0.9
50°-60°	5.4	1.5	0.6
60°-70°	4.5	1.3	0.5
70°-80°	2.9	0.8	0.3
80°-90°	0.5	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°	308.4	87.3	34.3
0°-40°	332.0	94.0	36.9
0°-60°	345.2	97.8	38.4
0°-90°	353.1	100.0	39.2
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°	353.1	100.0	39.2

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1318	1318	1318	1318	1318	
5°	1212	1212	1212	1212	1212	103
15°	505	505	505	505	505	138
25°	142	142	142	142	142	68
35°	37	37	37	37	37	24
45°	9	9	9	9	9	8
55°	6	6	6	6	6	5
65°	5	5	5	5	5	4
75°	3	3	3	3	3	3
85°	0	0	0	0	0	1
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°	1318	1318	1318	1318	1318	1318	1318	1318	1318
1°	1318	1318	1318	1318	1318	1318	1318	1318	1318
2°	1314	1314	1314	1314	1314	1314	1314	1314	1314
3°	1295	1295	1295	1295	1295	1295	1295	1295	1295
4°	1261	1261	1261	1261	1261	1261	1261	1261	1261
5°	1212	1212	1212	1212	1212	1212	1212	1212	1212
6°	1150	1150	1150	1150	1150	1150	1150	1150	1150
7°	1071	1071	1071	1071	1071	1071	1071	1071	1071
8°	993	993	993	993	993	993	993	993	993
9°	913	913	913	913	913	913	913	913	913
10°	833	833	833	833	833	833	833	833	833
11°	752	752	752	752	752	752	752	752	752
12°	679	679	679	679	679	679	679	679	679
13°	614	614	614	614	614	614	614	614	614
14°	560	560	560	560	560	560	560	560	560
15°	505	505	505	505	505	505	505	505	505
17.5°	373	373	373	373	373	373	373	373	373
20°	262	262	262	262	262	262	262	262	262
22.5°	185	185	185	185	185	185	185	185	185
25°	142	142	142	142	142	142	142	142	142
27.5°	108	108	108	108	108	108	108	108	108
30°	76	76	76	76	76	76	76	76	76
32.5°	49	49	49	49	49	49	49	49	49
35°	37	37	37	37	37	37	37	37	37
37.5°	23	23	23	23	23	23	23	23	23
40°	16	16	16	16	16	16	16	16	16
45°	9	9	9	9	9	9	9	9	9
50°	7	7	7	7	7	7	7	7	7
55°	6	6	6	6	6	6	6	6	6
60°	5	5	5	5	5	5	5	5	5
65°	5	5	5	5	5	5	5	5	5
70°	3	3	3	3	3	3	3	3	3
75°	3	3	3	3	3	3	3	3	3
80°	2	2	2	2	2	2	2	2	2
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)