

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: E395739

Luminaire Tested: **H7-417**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395739
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-417
Description: HALO RECESSED INC - H7 ADJ, BAFFLED EYEBALL, 0 DEG TILT
Light Source: 75R30SP, 900 LUMENS
Ballast/Driver: -

Summary

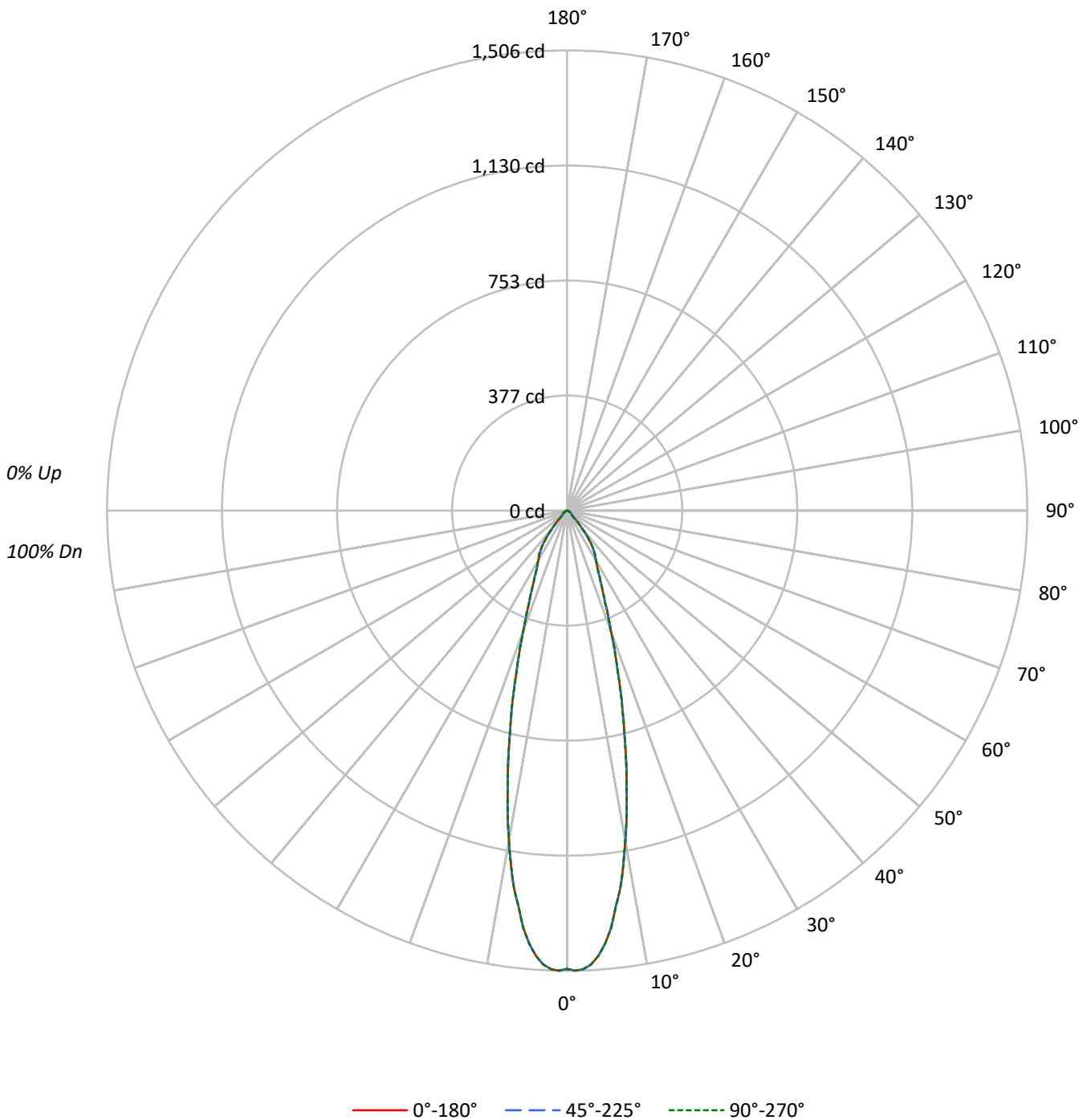
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 580.6 lumens
Efficiency: 64.5%
Efficacy: 7.7 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: (L: 0 ' x W: -0.34 ' x H: 0 '
CIE Type: Direct

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



TEST NUMBER: E395739
CATALOG NUMBER: H7-417

Luminous Intensity Polar Plot





TEST NUMBER: E395739
 CATALOG NUMBER: H7-417

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	77	77	77	77	75	75	75	75	72	72	72		69	69	69		66	66	66	65
1	74	72	70	69	72	70	69	68	68	67	66		65	65	64		63	63	62	61
2	70	67	65	63	69	66	64	62	64	62	61		62	61	60		60	59	58	57
3	67	63	60	58	66	62	60	58	61	58	57		59	57	56		58	56	55	54
4	64	60	56	54	63	59	56	54	58	55	53		56	54	52		55	53	52	51
5	61	56	53	51	60	56	53	50	55	52	50		54	51	49		53	51	49	48
6	59	54	50	48	58	53	50	47	52	49	47		51	49	47		51	48	47	46
7	56	51	48	45	56	51	47	45	50	47	45		49	46	45		48	46	44	43
8	54	49	45	43	53	48	45	43	48	45	43		47	44	42		46	44	42	41
9	52	47	43	41	51	46	43	41	46	43	41		45	42	41		45	42	40	40
10	50	45	41	39	50	44	41	39	44	41	39		43	41	39		43	41	39	38

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: E395739
 CATALOG NUMBER: H7-417

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	125.0	21.5	13.9
10°-20°	196.6	33.9	21.8
20°-30°	124.4	21.4	13.8
30°-40°	86.2	14.8	9.6
40°-50°	26.8	4.6	3.0
50°-60°	13.4	2.3	1.5
60°-70°	7.6	1.3	0.8
70°-80°	0.5	0.1	0.1
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°	446.0	76.8	49.6
0°-40°	532.2	91.7	59.1
0°-60°	572.4	98.6	63.6
0°-90°	580.6	100.0	64.5
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°	580.6	100.0	64.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1500	1500	1500	1500	1500	
5°	1423	1423	1423	1423	1423	125
15°	712	712	712	712	712	197
25°	259	259	259	259	259	124
35°	145	145	145	145	145	86
45°	25	25	25	25	25	27
55°	15	15	15	15	15	13
65°	8	8	8	8	8	8
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: E395739
 CATALOG NUMBER: H7-417

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1500	1500	1500	1500	1500	1500	1500	1500	1500
1°	1506	1506	1506	1506	1506	1506	1506	1506	1506
2°	1502	1502	1502	1502	1502	1502	1502	1502	1502
3°	1488	1488	1488	1488	1488	1488	1488	1488	1488
4°	1461	1461	1461	1461	1461	1461	1461	1461	1461
5°	1423	1423	1423	1423	1423	1423	1423	1423	1423
6°	1374	1374	1374	1374	1374	1374	1374	1374	1374
7°	1305	1305	1305	1305	1305	1305	1305	1305	1305
8°	1250	1250	1250	1250	1250	1250	1250	1250	1250
9°	1175	1175	1175	1175	1175	1175	1175	1175	1175
10°	1097	1097	1097	1097	1097	1097	1097	1097	1097
11°	1020	1020	1020	1020	1020	1020	1020	1020	1020
12°	937	937	937	937	937	937	937	937	937
13°	863	863	863	863	863	863	863	863	863
14°	784	784	784	784	784	784	784	784	784
15°	712	712	712	712	712	712	712	712	712
17.5°	550	550	550	550	550	550	550	550	550
20°	418	418	418	418	418	418	418	418	418
22.5°	323	323	323	323	323	323	323	323	323
25°	259	259	259	259	259	259	259	259	259
27.5°	216	216	216	216	216	216	216	216	216
30°	189	189	189	189	189	189	189	189	189
32.5°	169	169	169	169	169	169	169	169	169
35°	145	145	145	145	145	145	145	145	145
37.5°	112	112	112	112	112	112	112	112	112
40°	74	74	74	74	74	74	74	74	74
45°	25	25	25	25	25	25	25	25	25
50°	17	17	17	17	17	17	17	17	17
55°	15	15	15	15	15	15	15	15	15
60°	13	13	13	13	13	13	13	13	13
65°	8	8	8	8	8	8	8	8	8
70°	2	2	2	2	2	2	2	2	2
75°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)