

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: E395740

Luminaire Tested: **H7-418**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395740
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-418
Description: HALO RECESSED INC - H7 ADJ, REGRESSED EYEBALL, 0 DEG TILT
Light Source: 75R30FL, 900 LUMENS
Ballast/Driver: -

Summary

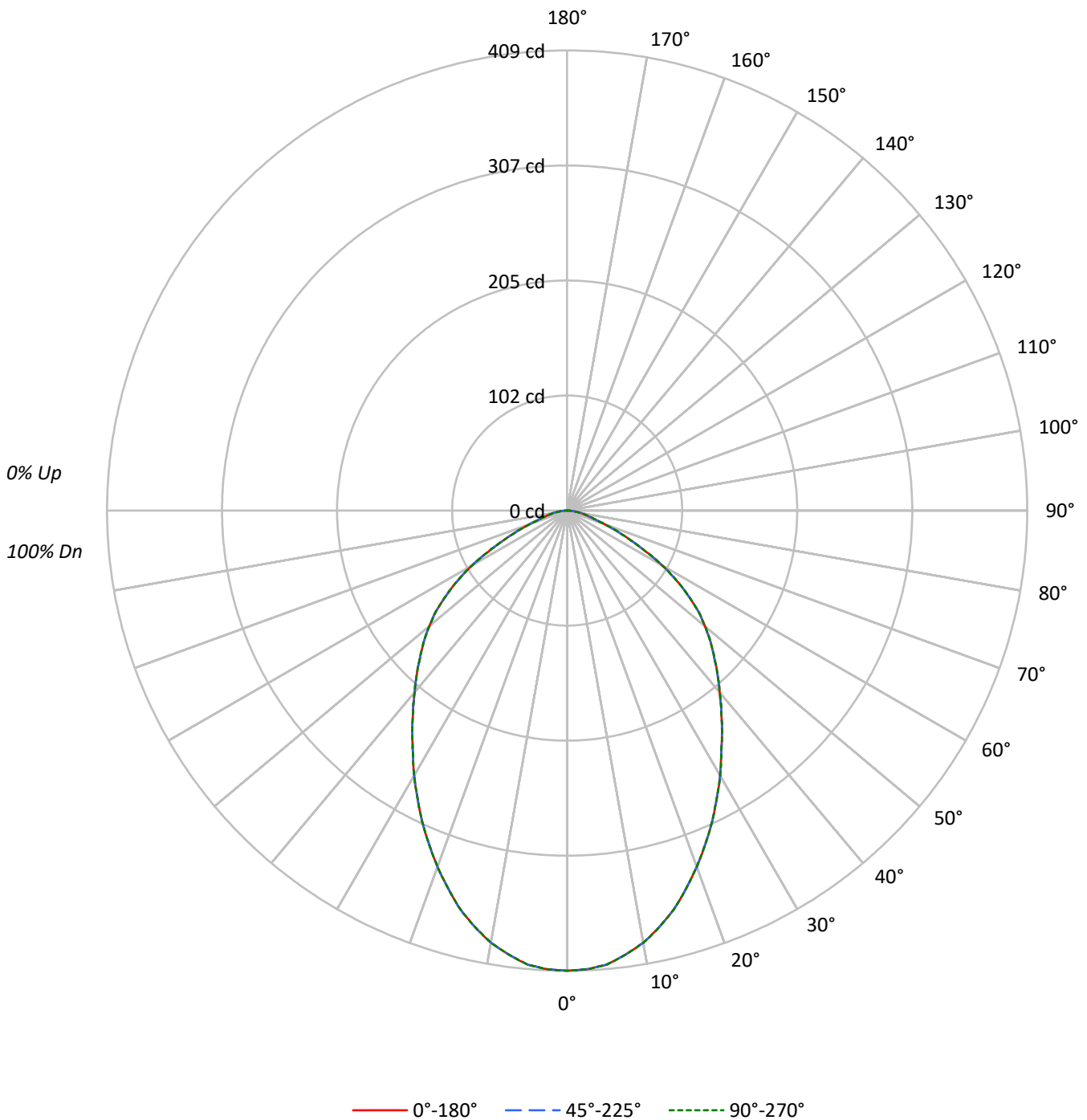
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 782.4 lumens
Efficiency: 86.9%
Efficacy: 10.4 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.14
Luminous Opening: (L: 0 ' x W: -0.33 ' x H: 0 '
CIE Type: Direct

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: E395740
CATALOG NUMBER: H7-418

Luminous Intensity Polar Plot





TEST NUMBER: E395740
 CATALOG NUMBER: H7-418

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	103	103	103	103	101	101	101	101	97	97	97	92	92	92	89	89	89	87
1	96	93	89	87	94	91	88	85	87	85	82	84	82	80	81	79	78	76
2	89	82	77	73	86	81	76	72	78	74	70	75	72	69	72	70	67	66
3	82	73	67	62	80	72	66	62	70	65	61	67	63	60	65	62	59	57
4	75	66	59	54	73	65	58	53	63	57	53	61	56	52	59	55	51	50
5	70	60	52	47	68	59	52	47	57	51	46	55	50	46	54	49	45	44
6	65	54	47	42	63	53	47	42	52	46	41	50	45	41	49	44	41	39
7	60	49	42	37	59	49	42	37	47	41	37	46	41	37	45	40	37	35
8	56	45	38	34	55	45	38	34	44	38	33	43	37	33	42	37	33	32
9	53	42	35	31	52	41	35	31	40	35	30	40	34	30	39	34	30	29
10	50	39	32	28	49	38	32	28	38	32	28	37	32	28	36	31	28	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°			



TEST NUMBER: E395740
 CATALOG NUMBER: H7-418

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.1	4.9	4.2
10°-20°	102.8	13.1	11.4
20°-30°	140.1	17.9	15.6
30°-40°	150.3	19.2	16.7
40°-50°	143.0	18.3	15.9
50°-60°	116.5	14.9	12.9
60°-70°	63.0	8.1	7.0
70°-80°	22.5	2.9	2.5
80°-90°	6.0	0.8	0.7
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°	281.1	35.9	31.2
0°-40°	431.3	55.1	47.9
0°-60°	690.9	88.3	76.8
0°-90°	782.4	100.0	86.9
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°	782.4	100.0	86.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	409	409	409	409	409	
5°	405	405	405	405	405	38
15°	367	367	367	367	367	103
25°	305	305	305	305	305	140
35°	240	240	240	240	240	150
45°	185	185	185	185	185	143
55°	131	131	131	131	131	117
65°	62	62	62	62	62	63
75°	20	20	20	20	20	23
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



TEST NUMBER: E395740
 CATALOG NUMBER: H7-418

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	409	409	409	409	409	409	409	409	409
2.5°	408	408	408	408	408	408	408	408	408
5°	405	405	405	405	405	405	405	405	405
7.5°	398	398	398	398	398	398	398	398	398
10°	390	390	390	390	390	390	390	390	390
12.5°	379	379	379	379	379	379	379	379	379
15°	367	367	367	367	367	367	367	367	367
17.5°	352	352	352	352	352	352	352	352	352
20°	337	337	337	337	337	337	337	337	337
22.5°	321	321	321	321	321	321	321	321	321
25°	305	305	305	305	305	305	305	305	305
27.5°	288	288	288	288	288	288	288	288	288
30°	272	272	272	272	272	272	272	272	272
32.5°	255	255	255	255	255	255	255	255	255
35°	240	240	240	240	240	240	240	240	240
37.5°	225	225	225	225	225	225	225	225	225
40°	211	211	211	211	211	211	211	211	211
42.5°	198	198	198	198	198	198	198	198	198
45°	185	185	185	185	185	185	185	185	185
47.5°	173	173	173	173	173	173	173	173	173
50°	160	160	160	160	160	160	160	160	160
52.5°	147	147	147	147	147	147	147	147	147
55°	131	131	131	131	131	131	131	131	131
57.5°	115	115	115	115	115	115	115	115	115
60°	98	98	98	98	98	98	98	98	98
62.5°	79	79	79	79	79	79	79	79	79
65°	62	62	62	62	62	62	62	62	62
67.5°	48	48	48	48	48	48	48	48	48
70°	35	35	35	35	35	35	35	35	35
72.5°	26	26	26	26	26	26	26	26	26
75°	20	20	20	20	20	20	20	20	20
77.5°	16	16	16	16	16	16	16	16	16
80°	12	12	12	12	12	12	12	12	12
82.5°	8	8	8	8	8	8	8	8	8
85°	5	5	5	5	5	5	5	5	5
87.5°	3	3	3	3	3	3	3	3	3
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)