

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: E395736

Luminaire Tested: **H7-417**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395736
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: 75R30FL, 900 LUMENS
Ballast/Driver: -

Summary

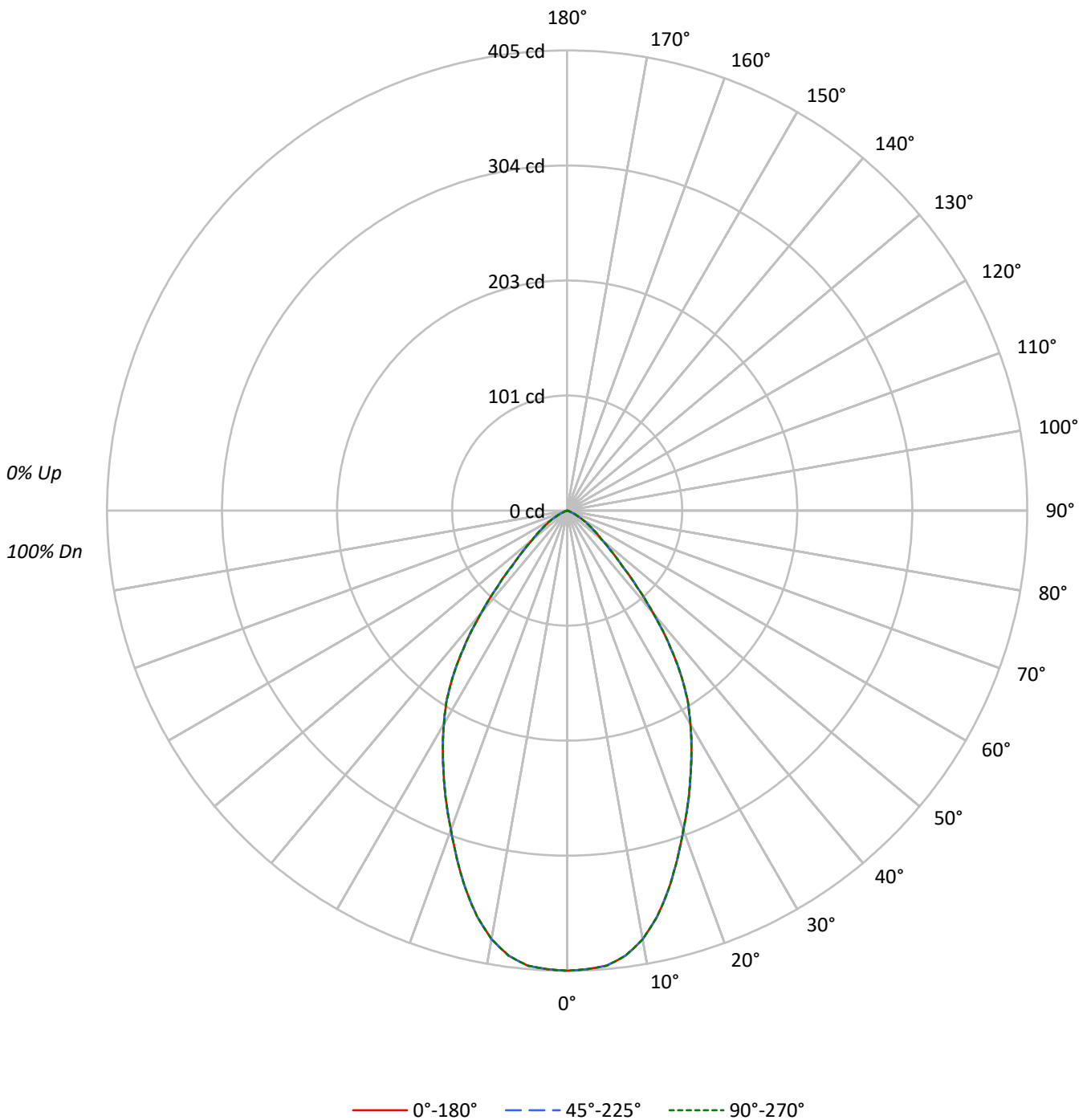
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 444.9 lumens
Efficiency: 49.4%
Efficacy: 5.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.96
Luminous Opening: (L: 0 ' x W: -0.34 ' x H: 0 '
CIE Type: Direct

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



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	59	59	59	59	57	57	57	57	55	55	55	53	53	53	50	50	50	49	49	49
1	56	54	53	52	55	53	52	51	51	50	49	49	49	48	48	47	46	45	45	45
2	53	50	48	46	51	49	47	45	47	46	44	46	44	43	44	43	42	41	41	41
3	49	46	43	41	48	45	43	41	44	42	40	43	41	39	41	40	39	38	38	38
4	47	42	39	37	46	42	39	37	41	38	36	40	37	36	39	37	35	35	35	35
5	44	39	36	33	43	39	36	33	38	35	33	37	35	33	36	34	32	32	32	32
6	41	36	33	31	40	36	33	30	35	32	30	34	32	30	34	32	30	29	29	29
7	39	34	30	28	38	33	30	28	33	30	28	32	30	28	32	29	28	27	27	27
8	37	32	28	26	36	31	28	26	31	28	26	30	28	26	30	27	26	25	25	25
9	35	30	26	24	34	29	26	24	29	26	24	28	26	24	28	26	24	23	23	23
10	33	28	25	22	32	27	24	22	27	24	22	27	24	22	26	24	22	22	22	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°	37.8	8.5	4.2
10°-20°	96.1	21.6	10.7
20°-30°	118.1	26.5	13.1
30°-40°	106.1	23.9	11.8
40°-50°	55.3	12.4	6.1
50°-60°	23.2	5.2	2.6
60°-70°	7.2	1.6	0.8
70°-80°	1.0	0.2	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°	252.0	56.6	28.0
0°-40°	358.1	80.5	39.8
0°-60°	436.6	98.1	48.5
0°-90°	444.9	100.0	49.4
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°	444.9	100.0	49.4

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	405	405	405	405	405	
5°	402	402	402	402	402	38
15°	345	345	345	345	345	96
25°	257	257	257	257	257	118
35°	173	173	173	173	173	106
45°	68	68	68	68	68	55
55°	25	25	25	25	25	23
65°	7	7	7	7	7	7
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°	405	405	405	405	405	405	405	405	405
2.5°	404	404	404	404	404	404	404	404	404
5°	402	402	402	402	402	402	402	402	402
7.5°	395	395	395	395	395	395	395	395	395
10°	383	383	383	383	383	383	383	383	383
12.5°	366	366	366	366	366	366	366	366	366
15°	345	345	345	345	345	345	345	345	345
17.5°	322	322	322	322	322	322	322	322	322
20°	299	299	299	299	299	299	299	299	299
22.5°	278	278	278	278	278	278	278	278	278
25°	257	257	257	257	257	257	257	257	257
27.5°	237	237	237	237	237	237	237	237	237
30°	217	217	217	217	217	217	217	217	217
32.5°	197	197	197	197	197	197	197	197	197
35°	173	173	173	173	173	173	173	173	173
37.5°	146	146	146	146	146	146	146	146	146
40°	118	118	118	118	118	118	118	118	118
42.5°	91	91	91	91	91	91	91	91	91
45°	68	68	68	68	68	68	68	68	68
47.5°	52	52	52	52	52	52	52	52	52
50°	40	40	40	40	40	40	40	40	40
52.5°	32	32	32	32	32	32	32	32	32
55°	25	25	25	25	25	25	25	25	25
57.5°	20	20	20	20	20	20	20	20	20
60°	15	15	15	15	15	15	15	15	15
62.5°	10	10	10	10	10	10	10	10	10
65°	7	7	7	7	7	7	7	7	7
67.5°	4	4	4	4	4	4	4	4	4
70°	2	2	2	2	2	2	2	2	2
72.5°	2	2	2	2	2	2	2	2	2
75°	1	1	1	1	1	1	1	1	1
77.5°	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)