

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: E395148

Luminaire Tested: **H7-409**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395148
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-409
Description: HALO RECESSED INC - H7 HOUSING, COILEX BAFFLE
Light Source: 150R40FL, 1900 LUMENS
Ballast/Driver: -

Summary

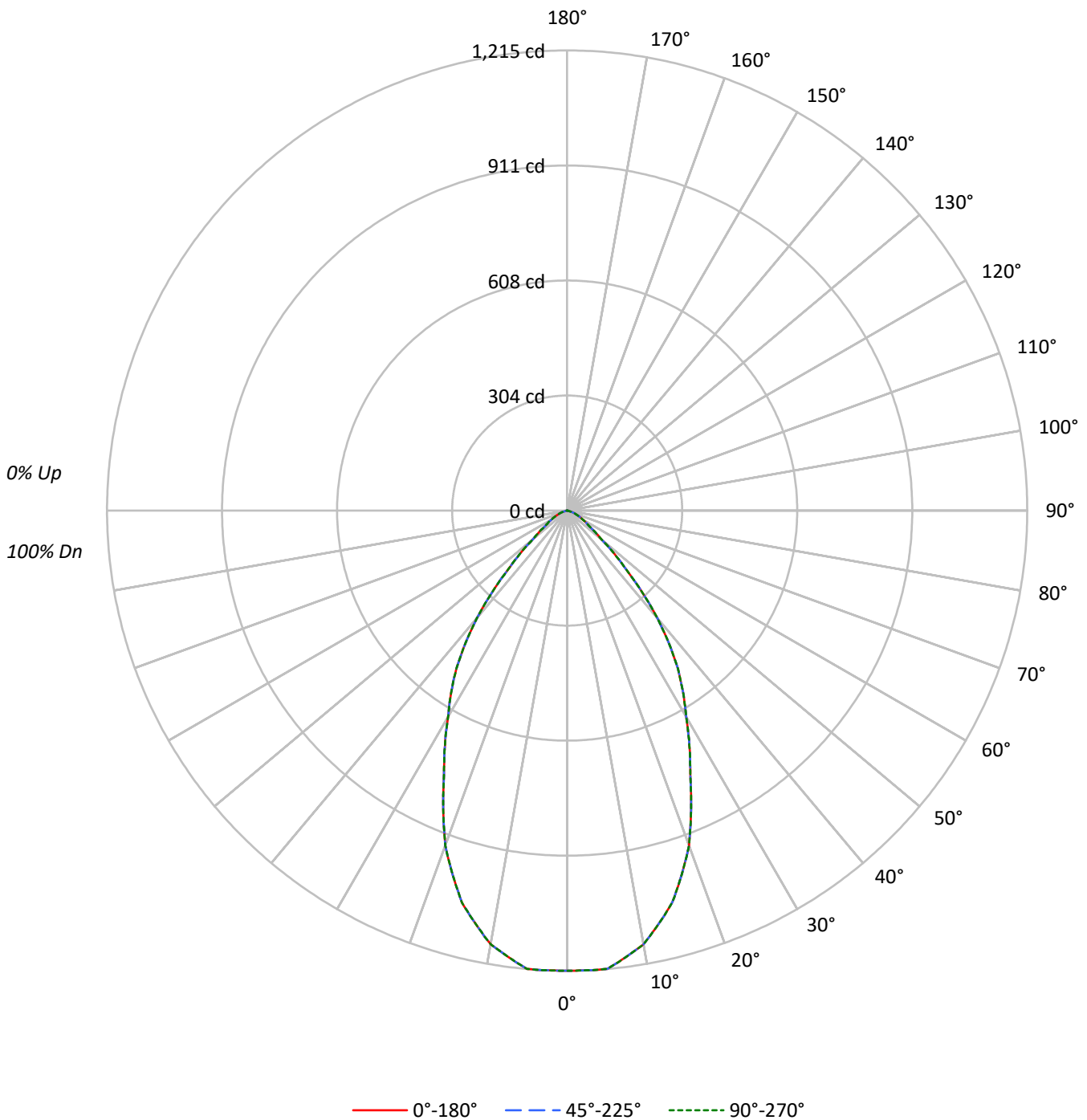
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1371.4 lumens
Efficiency: 72.2%
Efficacy: 9.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
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	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72	72	72	70	70	70
1	81	79	77	75	79	77	76	74	75	73	72	72	71	70	69	68	68	66	66	66	64	64	64
2	77	72	69	66	75	71	68	66	69	66	64	67	65	63	65	63	61	60	60	60	58	58	58
3	72	67	62	59	70	66	62	59	64	60	58	62	59	57	60	58	56	55	55	55	53	53	53
4	68	61	57	53	66	61	56	53	59	55	52	57	54	52	56	53	51	50	50	50	48	48	48
5	64	57	52	48	62	56	52	48	55	51	48	53	50	47	52	49	47	46	46	46	44	44	44
6	60	53	48	44	59	52	47	44	51	47	44	50	46	43	49	46	43	42	42	42	40	40	40
7	57	49	44	41	55	48	44	41	47	43	40	47	43	40	46	42	40	39	39	39	37	37	37
8	53	46	41	38	52	45	41	37	44	40	37	44	40	37	43	39	37	36	36	36	34	34	34
9	51	43	38	35	50	42	38	35	42	38	35	41	37	34	40	37	34	33	33	33	31	31	31
10	48	40	36	32	47	40	35	32	39	35	32	39	35	32	38	35	32	31	31	31	29	29	29

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°	114.1	8.3	6.0
10°-20°	298.5	21.8	15.7
20°-30°	356.3	26.0	18.8
30°-40°	314.7	22.9	16.6
40°-50°	178.1	13.0	9.4
50°-60°	68.2	5.0	3.6
60°-70°	32.6	2.4	1.7
70°-80°	8.1	0.6	0.4
80°-90°	0.8	0.1	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°	768.9	56.1	40.5
0°-40°	1083.6	79.0	57.0
0°-60°	1329.8	97.0	70.0
0°-90°	1371.4	100.0	72.2
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°	1371.4	100.0	72.2

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1215	1215	1215	1215	1215	
5°	1215	1215	1215	1215	1215	114
15°	1072	1072	1072	1072	1072	298
25°	769	769	769	769	769	356
35°	510	510	510	510	510	315
45°	221	221	221	221	221	178
55°	70	70	70	70	70	68
65°	32	32	32	32	32	33
75°	4	4	4	4	4	8
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1215	1215	1215	1215	1215	1215	1215
5°	1215	1215	1215	1215	1215	1215	1215
10°	1163	1163	1163	1163	1163	1163	1163
15°	1072	1072	1072	1072	1072	1072	1072
20°	941	941	941	941	941	941	941
25°	769	769	769	769	769	769	769
30°	629	629	629	629	629	629	629
35°	510	510	510	510	510	510	510
40°	371	371	371	371	371	371	371
45°	221	221	221	221	221	221	221
50°	118	118	118	118	118	118	118
55°	70	70	70	70	70	70	70
60°	48	48	48	48	48	48	48
65°	32	32	32	32	32	32	32
70°	20	20	20	20	20	20	20
75°	4	4	4	4	4	4	4
80°	3	3	3	3	3	3	3
85°	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0

(END OF REPORT)