

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: E395145

Luminaire Tested: **H7-409**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395145
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: 100A19, 1750 LUMENS
Ballast/Driver: -

Summary

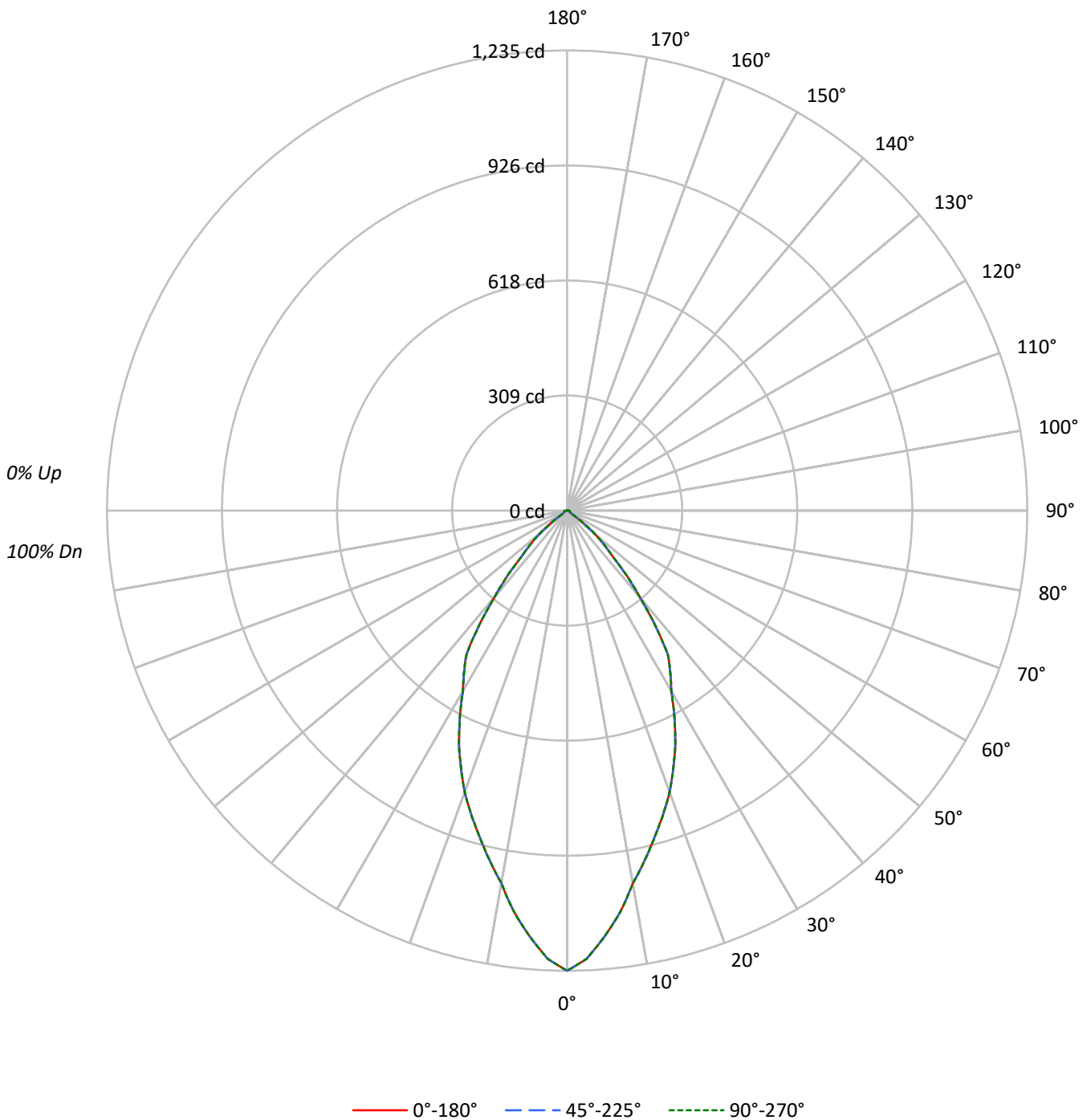
Lumens per Lamp: 1750 (1 lamp)
Luminaire Lumens: 1146.3 lumens
Efficiency: 65.5%
Efficacy: 11.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.9
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 100
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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	66
1	74	72	70	68	72	70	69	67	68	66	65		65	64	63		63	62	61	60
2	70	66	63	61	68	65	62	60	63	61	59		61	59	58		59	58	56	55
3	66	61	58	55	64	60	57	54	58	56	53		57	55	53		55	53	52	51
4	62	57	53	50	61	56	52	49	54	51	49		53	50	48		52	49	48	46
5	59	53	48	45	57	52	48	45	51	47	45		50	47	44		49	46	44	43
6	55	49	45	42	54	48	44	41	47	44	41		46	43	41		45	43	41	40
7	52	46	41	38	51	45	41	38	44	41	38		43	40	38		43	40	38	37
8	49	43	38	35	49	42	38	35	42	38	35		41	38	35		40	37	35	34
9	47	40	36	33	46	40	36	33	39	35	33		38	35	33		38	35	33	32
10	44	38	34	31	44	37	33	31	37	33	31		36	33	31		36	33	30	30

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°	105.6	9.2	6.0
10°-20°	255.1	22.3	14.6
20°-30°	314.1	27.4	17.9
30°-40°	281.0	24.5	16.1
40°-50°	140.5	12.3	8.0
50°-60°	29.0	2.5	1.7
60°-70°	8.2	0.7	0.5
70°-80°	7.7	0.7	0.4
80°-90°	5.2	0.5	0.3
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°	674.8	58.9	38.6
0°-40°	955.7	83.4	54.6
0°-60°	1125.3	98.2	64.3
0°-90°	1146.3	100.0	65.5
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°	1146.3	100.0	65.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1235	1235	1235	1235	1235	
5°	1148	1148	1148	1148	1148	106
15°	907	907	907	907	907	255
25°	687	687	687	687	687	314
35°	471	471	471	471	471	281
45°	168	168	168	168	168	141
55°	14	14	14	14	14	29
65°	8	8	8	8	8	8
75°	7	7	7	7	7	8
85°	6	6	6	6	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235
2.5°	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204
5°	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148
7.5°	1088	1088	1088	1088	1088	1088	1088	1088	1088	1088	1088
10°	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016
15°	907	907	907	907	907	907	907	907	907	907	907
20°	804	804	804	804	804	804	804	804	804	804	804
25°	687	687	687	687	687	687	687	687	687	687	687
30°	559	559	559	559	559	559	559	559	559	559	559
35°	471	471	471	471	471	471	471	471	471	471	471
40°	304	304	304	304	304	304	304	304	304	304	304
45°	168	168	168	168	168	168	168	168	168	168	168
50°	95	95	95	95	95	95	95	95	95	95	95
55°	14	14	14	14	14	14	14	14	14	14	14
60°	9	9	9	9	9	9	9	9	9	9	9
65°	8	8	8	8	8	8	8	8	8	8	8
70°	8	8	8	8	8	8	8	8	8	8	8
75°	7	7	7	7	7	7	7	7	7	7	7
80°	7	7	7	7	7	7	7	7	7	7	7
85°	6	6	6	6	6	6	6	6	6	6	6
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235
2.5°	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204
5°	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148
7.5°	1088	1088	1088	1088	1088	1088	1088	1088	1088	1088
10°	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016
15°	907	907	907	907	907	907	907	907	907	907
20°	804	804	804	804	804	804	804	804	804	804
25°	687	687	687	687	687	687	687	687	687	687
30°	559	559	559	559	559	559	559	559	559	559
35°	471	471	471	471	471	471	471	471	471	471
40°	304	304	304	304	304	304	304	304	304	304
45°	168	168	168	168	168	168	168	168	168	168
50°	95	95	95	95	95	95	95	95	95	95
55°	14	14	14	14	14	14	14	14	14	14
60°	9	9	9	9	9	9	9	9	9	9
65°	8	8	8	8	8	8	8	8	8	8
70°	8	8	8	8	8	8	8	8	8	8
75°	7	7	7	7	7	7	7	7	7	7
80°	7	7	7	7	7	7	7	7	7	7
85°	6	6	6	6	6	6	6	6	6	6
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)