

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: E395760

Luminaire Tested: **H7-416**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395760
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-416
Description: HALO RECESSED INC - H7 HOUSING, REGRESSED DROP OPAL PLASTIC
Light Source: 60A19, 870 LUMENS
Ballast/Driver: -

Summary

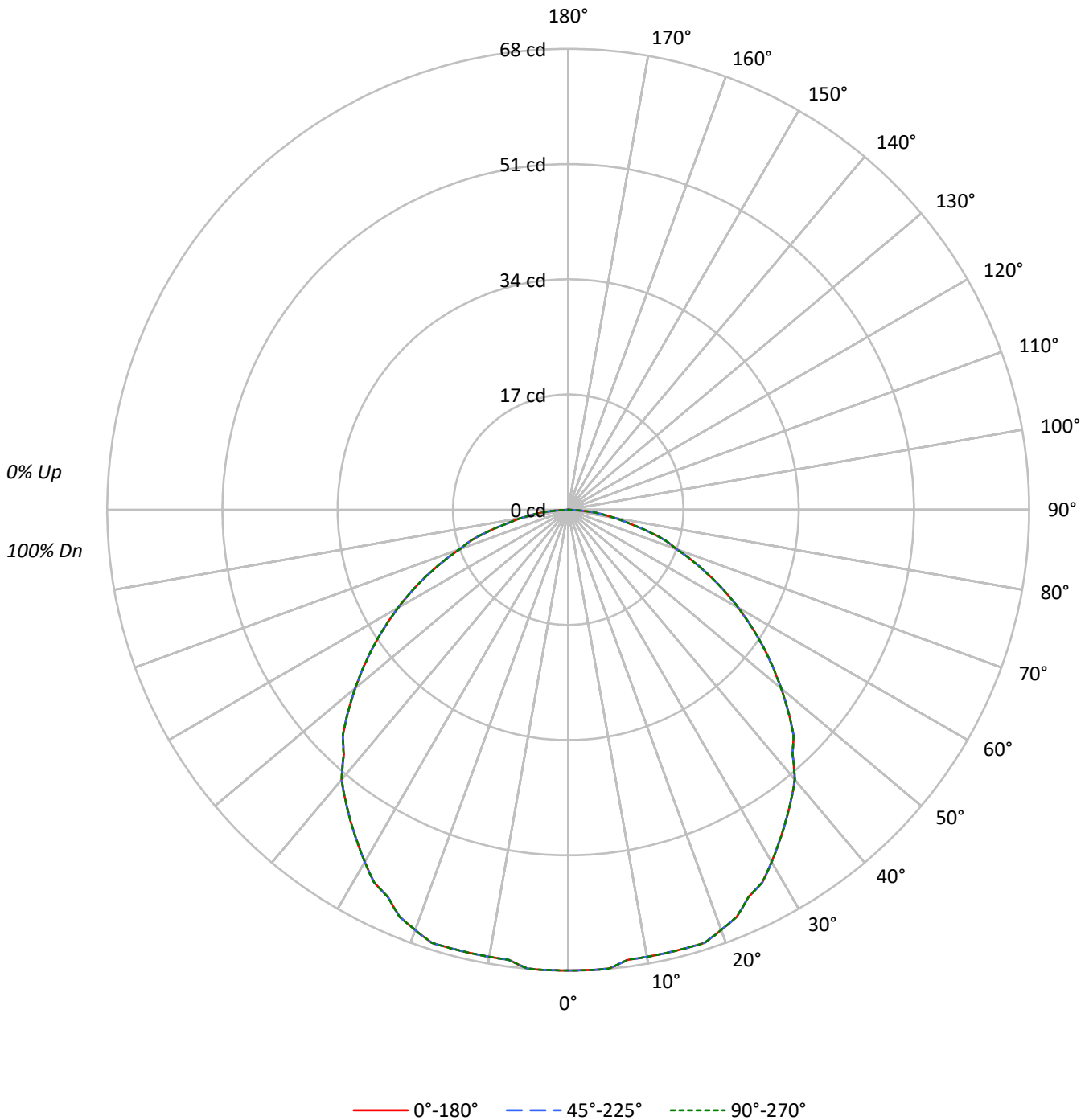
Lumens per Lamp: 870 (1 lamp)
Luminaire Lumens: 195.5 lumens
Efficiency: 22.5%
Efficacy: 3.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.4
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 60
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	27	27	27	27	26	26	26	26	25	25	25	24	24	24	23	23	23	22
1	24	23	22	22	24	23	22	21	22	21	21	21	21	20	20	20	19	19
2	22	20	19	18	22	20	19	17	19	18	17	18	18	17	18	17	16	16
3	20	18	16	15	20	18	16	15	17	16	14	16	15	14	16	15	14	13
4	19	16	14	12	18	16	14	12	15	13	12	15	13	12	14	13	12	11
5	17	14	12	11	17	14	12	11	14	12	11	13	12	10	13	11	10	10
6	16	13	11	9	15	13	11	9	12	11	9	12	10	9	11	10	9	9
7	15	12	10	8	14	11	10	8	11	9	8	11	9	8	10	9	8	8
8	14	11	9	7	13	10	9	7	10	9	7	10	8	7	10	8	7	7
9	13	10	8	7	12	10	8	7	9	8	7	9	8	7	9	8	7	6
10	12	9	7	6	12	9	7	6	9	7	6	8	7	6	8	7	6	6

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°	6.4	3.3	0.7
10°-20°	18.9	9.7	2.2
20°-30°	29.2	14.9	3.4
30°-40°	35.1	17.9	4.0
40°-50°	36.0	18.4	4.1
50°-60°	31.3	16.0	3.6
60°-70°	22.8	11.6	2.6
70°-80°	12.7	6.5	1.5
80°-90°	3.1	1.6	0.4
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°	54.6	27.9	6.3
0°-40°	89.7	45.9	10.3
0°-60°	157.0	80.3	18.0
0°-90°	195.5	100.0	22.5
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°	195.5	100.0	22.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	68	68	68	68	68	6
15°	67	67	67	67	67	19
25°	63	63	63	63	63	29
35°	56	56	56	56	56	35
45°	47	47	47	47	47	36
55°	35	35	35	35	35	31
65°	23	23	23	23	23	23
75°	12	12	12	12	12	13
85°	3	3	3	3	3	3
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°	68	68	68	68	68	68	68	68	68
2.5°	68	68	68	68	68	68	68	68	68
5°	68	68	68	68	68	68	68	68	68
7.5°	67	67	67	67	67	67	67	67	67
10°	67	67	67	67	67	67	67	67	67
12.5°	67	67	67	67	67	67	67	67	67
15°	67	67	67	67	67	67	67	67	67
17.5°	67	67	67	67	67	67	67	67	67
20°	66	66	66	66	66	66	66	66	66
22.5°	65	65	65	65	65	65	65	65	65
25°	63	63	63	63	63	63	63	63	63
27.5°	62	62	62	62	62	62	62	62	62
30°	60	60	60	60	60	60	60	60	60
32.5°	58	58	58	58	58	58	58	58	58
35°	56	56	56	56	56	56	56	56	56
37.5°	54	54	54	54	54	54	54	54	54
40°	52	52	52	52	52	52	52	52	52
42.5°	49	49	49	49	49	49	49	49	49
45°	47	47	47	47	47	47	47	47	47
47.5°	44	44	44	44	44	44	44	44	44
50°	41	41	41	41	41	41	41	41	41
52.5°	38	38	38	38	38	38	38	38	38
55°	35	35	35	35	35	35	35	35	35
57.5°	32	32	32	32	32	32	32	32	32
60°	29	29	29	29	29	29	29	29	29
62.5°	26	26	26	26	26	26	26	26	26
65°	23	23	23	23	23	23	23	23	23
67.5°	20	20	20	20	20	20	20	20	20
70°	17	17	17	17	17	17	17	17	17
72.5°	15	15	15	15	15	15	15	15	15
75°	12	12	12	12	12	12	12	12	12
77.5°	9	9	9	9	9	9	9	9	9
80°	7	7	7	7	7	7	7	7	7
82.5°	5	5	5	5	5	5	5	5	5
85°	3	3	3	3	3	3	3	3	3
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)