

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: E395592

Luminaire Tested: **H274-409**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395592
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H274-409
Description: HALO RECESSED FLUOR - BAFFLE
Light Source: QUAD PL13, 860 LUMENS
Ballast/Driver: -

Summary

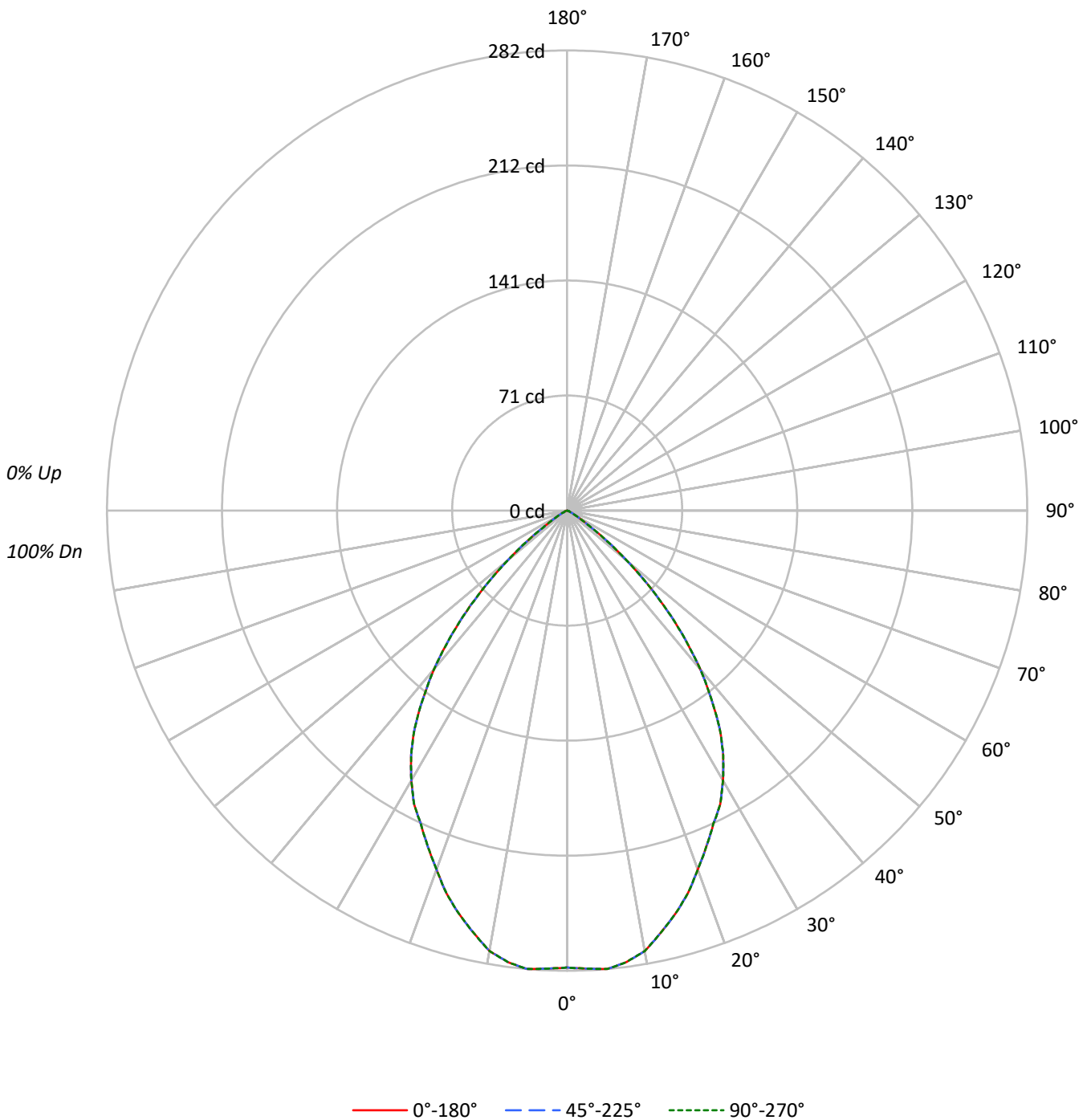
Lumens per Lamp: 860 (1 lamp)
Luminaire Lumens: 385.5 lumens
Efficiency: 44.8%
Efficacy: 24.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.1
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 16
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	53	53	53	53	52	52	52	52	50	50	50	48	48	48	46	46	46	45
1	51	49	48	47	49	48	47	46	46	45	45	45	44	43	43	42	42	41
2	48	45	43	41	46	44	42	41	43	41	40	41	40	39	40	39	38	37
3	45	41	39	37	44	41	38	36	39	37	36	38	37	35	37	36	35	34
4	42	38	35	33	41	37	35	33	36	34	32	35	33	32	35	33	31	31
5	39	35	32	30	38	34	32	29	34	31	29	33	31	29	32	30	29	28
6	37	32	29	27	36	32	29	27	31	28	27	30	28	26	30	28	26	25
7	35	30	27	24	34	29	27	24	29	26	24	28	26	24	28	26	24	23
8	33	28	25	22	32	27	24	22	27	24	22	26	24	22	26	24	22	21
9	31	26	23	21	30	25	23	21	25	22	21	25	22	20	24	22	20	20
10	29	24	21	19	28	24	21	19	23	21	19	23	21	19	23	20	19	18

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°	26.6	6.9	3.1
10°-20°	71.8	18.6	8.3
20°-30°	97.9	25.4	11.4
30°-40°	100.5	26.1	11.7
40°-50°	66.6	17.3	7.7
50°-60°	18.9	4.9	2.2
60°-70°	2.8	0.7	0.3
70°-80°	0.4	0.1	0.0
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°	196.3	50.9	22.8
0°-40°	296.8	77.0	34.5
0°-60°	382.3	99.2	44.5
0°-90°	385.5	100.0	44.8
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°	385.5	100.0	44.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	280	280	280	280	280	
5°	282	282	282	282	282	27
15°	256	256	256	256	256	72
25°	212	212	212	212	212	98
35°	163	163	163	163	163	101
45°	87	87	87	87	87	67
55°	18	18	18	18	18	19
65°	2	2	2	2	2	3
75°	0	0	0	0	0	0
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°	280	280	280	280	280	280	280	280	280
2.5°	281	281	281	281	281	281	281	281	281
5°	282	282	282	282	282	282	282	282	282
7.5°	279	279	279	279	279	279	279	279	279
10°	274	274	274	274	274	274	274	274	274
12.5°	265	265	265	265	265	265	265	265	265
15°	256	256	256	256	256	256	256	256	256
17.5°	246	246	246	246	246	246	246	246	246
20°	234	234	234	234	234	234	234	234	234
22.5°	223	223	223	223	223	223	223	223	223
25°	212	212	212	212	212	212	212	212	212
27.5°	203	203	203	203	203	203	203	203	203
30°	191	191	191	191	191	191	191	191	191
32.5°	178	178	178	178	178	178	178	178	178
35°	163	163	163	163	163	163	163	163	163
37.5°	145	145	145	145	145	145	145	145	145
40°	127	127	127	127	127	127	127	127	127
42.5°	107	107	107	107	107	107	107	107	107
45°	87	87	87	87	87	87	87	87	87
47.5°	67	67	67	67	67	67	67	67	67
50°	48	48	48	48	48	48	48	48	48
52.5°	31	31	31	31	31	31	31	31	31
55°	18	18	18	18	18	18	18	18	18
57.5°	10	10	10	10	10	10	10	10	10
60°	6	6	6	6	6	6	6	6	6
62.5°	4	4	4	4	4	4	4	4	4
65°	2	2	2	2	2	2	2	2	2
67.5°	2	2	2	2	2	2	2	2	2
70°	1	1	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1	1
75°	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)