

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: E395771

Luminaire Tested: **H46-468**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395771
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H46-468
Description: HALO RECESSED INC - H46 HOUSING, BAFFLE
Light Source: 300R40FL, 3650 LUMENS
Ballast/Driver: -

Summary

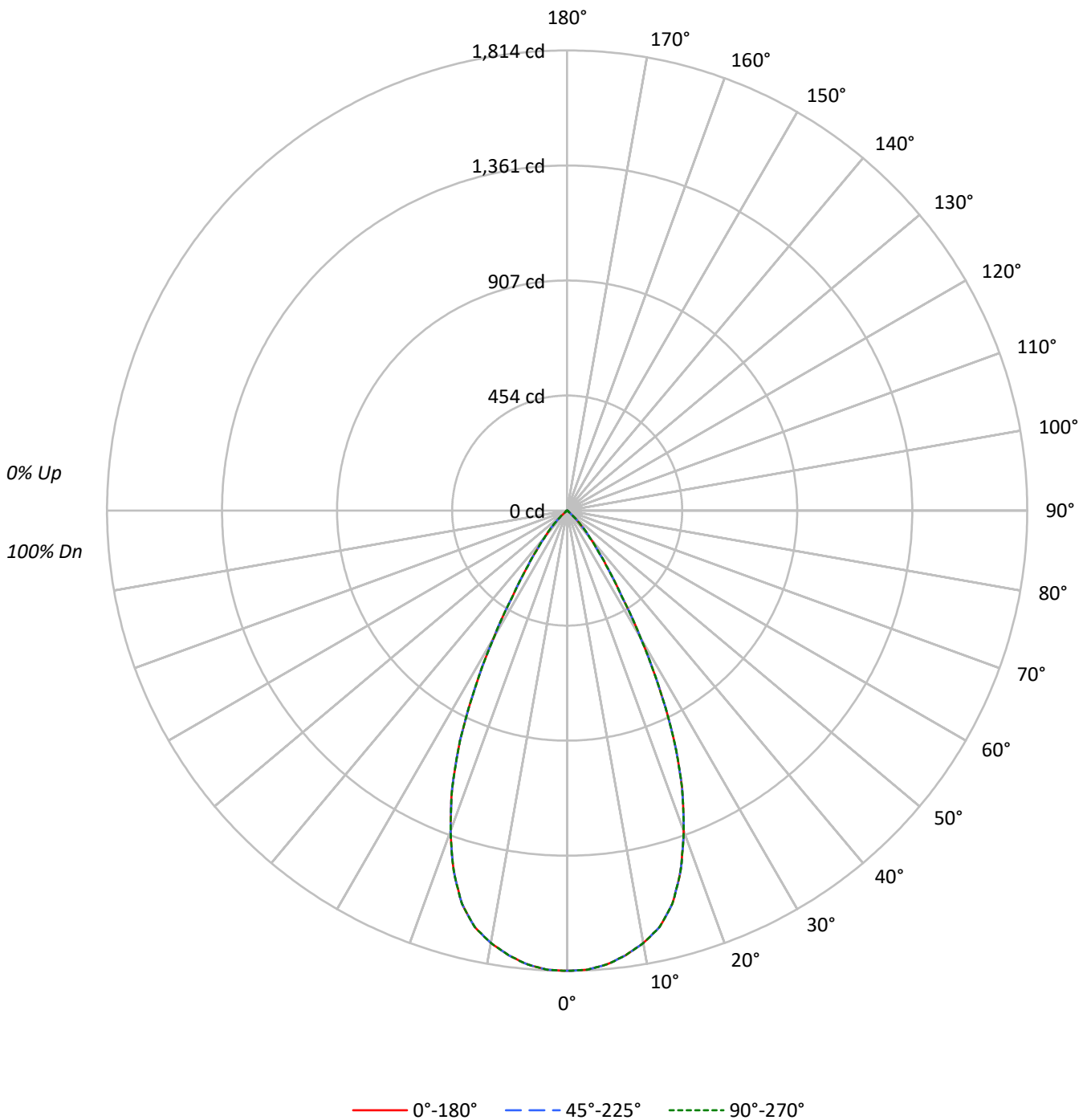
Lumens per Lamp: 3650 (1 lamp)
Luminaire Lumens: 1302.5 lumens
Efficiency: 35.7%
Efficacy: 4.3 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.78
Luminous Opening: (L: 0 ' x W: -0.62 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 300
Input Voltage (V): NR
Input Current (A_{in}): 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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CATALOG NUMBER: H46-468

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	42	42	42	42	41	41	41	41	40	40	40	38	38	38	36	36	36	36	36	36	36
1	41	40	39	38	40	39	38	38	38	37	36	36	36	35	35	35	34	35	35	34	34
2	39	37	36	35	38	37	35	34	35	34	34	34	34	33	33	33	32	33	33	32	32
3	37	35	33	32	36	34	33	32	34	32	31	33	32	31	32	31	30	32	31	30	30
4	35	33	31	30	35	32	31	29	32	30	29	31	30	29	30	29	28	30	29	28	28
5	34	31	29	28	33	31	29	28	30	28	27	29	28	27	29	28	27	29	28	27	26
6	32	29	27	26	32	29	27	26	28	27	26	28	27	25	28	26	25	28	26	25	25
7	31	28	26	24	30	28	26	24	27	25	24	27	25	24	26	25	24	26	25	24	23
8	29	26	24	23	29	26	24	23	26	24	23	25	24	23	25	24	23	25	24	23	22
9	28	25	23	22	28	25	23	22	24	23	22	24	23	22	24	22	21	24	22	21	21
10	27	24	22	21	27	24	22	21	23	22	20	23	22	20	23	21	20	23	21	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
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°	169.3	13.0	4.6
10°-20°	441.6	33.9	12.1
20°-30°	444.0	34.1	12.2
30°-40°	189.6	14.6	5.2
40°-50°	50.4	3.9	1.4
50°-60°	5.0	0.4	0.1
60°-70°	2.3	0.2	0.1
70°-80°	0.1	0.0	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°	1055.0	81.0	28.9
0°-40°	1244.6	95.6	34.1
0°-60°	1300.0	99.8	35.6
0°-90°	1302.5	100.0	35.7
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°	1302.5	100.0	35.7

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1814	1814	1814	1814	1814	
5°	1796	1796	1796	1796	1796	169
15°	1604	1604	1604	1604	1604	442
25°	997	997	997	997	997	444
35°	281	281	281	281	281	190
45°	61	61	61	61	61	50
55°	5	5	5	5	5	5
65°	2	2	2	2	2	2
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°	1814	1814	1814	1814	1814	1814	1814	1814	1814
2.5°	1812	1812	1812	1812	1812	1812	1812	1812	1812
5°	1796	1796	1796	1796	1796	1796	1796	1796	1796
7.5°	1768	1768	1768	1768	1768	1768	1768	1768	1768
10°	1731	1731	1731	1731	1731	1731	1731	1731	1731
12.5°	1682	1682	1682	1682	1682	1682	1682	1682	1682
15°	1604	1604	1604	1604	1604	1604	1604	1604	1604
17.5°	1488	1488	1488	1488	1488	1488	1488	1488	1488
20°	1343	1343	1343	1343	1343	1343	1343	1343	1343
22.5°	1185	1185	1185	1185	1185	1185	1185	1185	1185
25°	997	997	997	997	997	997	997	997	997
27.5°	785	785	785	785	785	785	785	785	785
30°	579	579	579	579	579	579	579	579	579
32.5°	401	401	401	401	401	401	401	401	401
35°	281	281	281	281	281	281	281	281	281
37.5°	199	199	199	199	199	199	199	199	199
40°	140	140	140	140	140	140	140	140	140
42.5°	98	98	98	98	98	98	98	98	98
45°	61	61	61	61	61	61	61	61	61
47.5°	33	33	33	33	33	33	33	33	33
50°	11	11	11	11	11	11	11	11	11
52.5°	5	5	5	5	5	5	5	5	5
55°	5	5	5	5	5	5	5	5	5
57.5°	5	5	5	5	5	5	5	5	5
60°	4	4	4	4	4	4	4	4	4
62.5°	3	3	3	3	3	3	3	3	3
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°	0	0	0	0	0	0	0	0	0
75°	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)