

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: E395582

Luminaire Tested: **H46-468**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395582
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: 300R40SP, 3650 LUMENS
Ballast/Driver: -

Summary

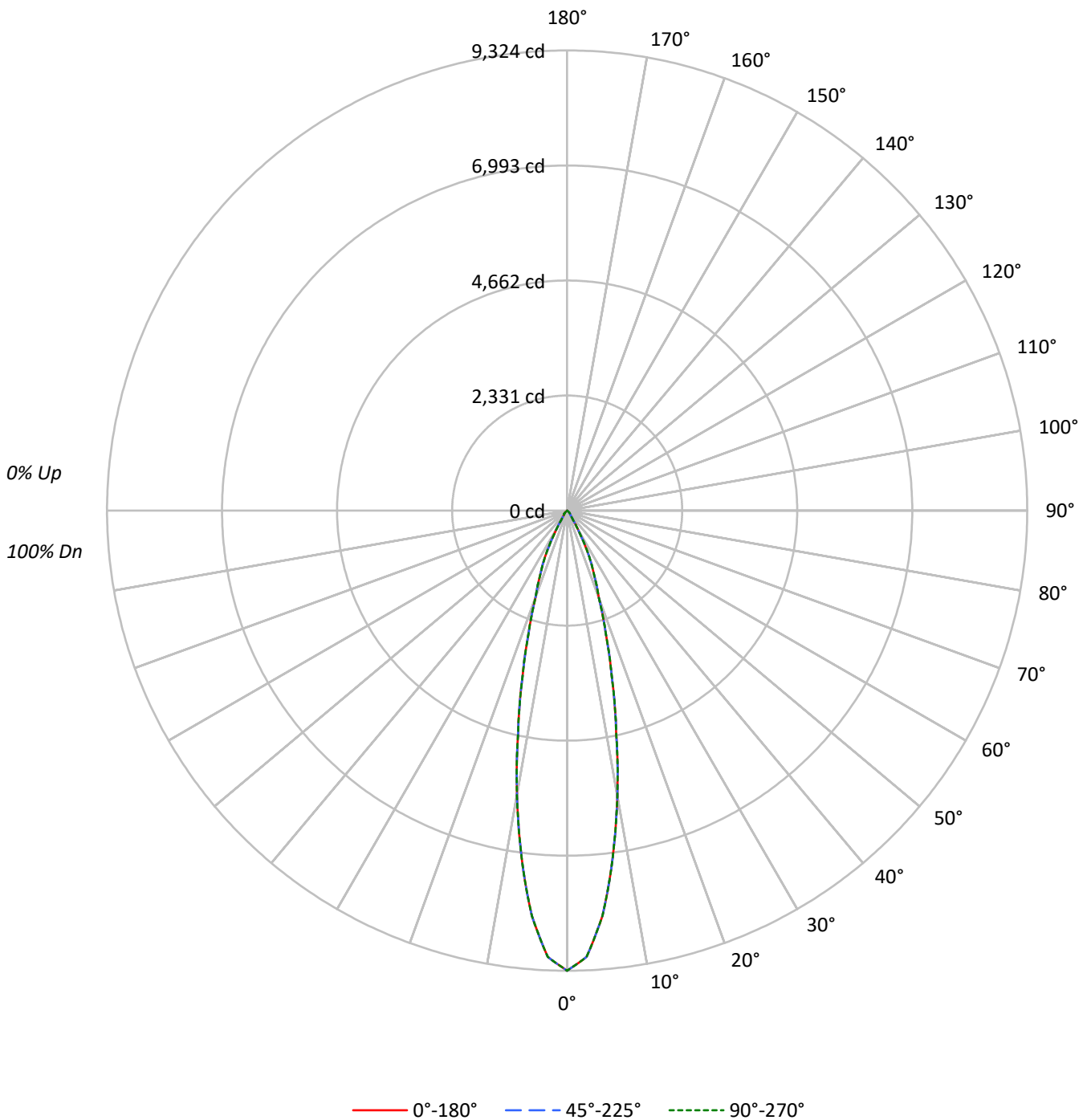
Lumens per Lamp: 3650 (1 lamp)
Luminaire Lumens: 2332.5 lumens
Efficiency: 63.9%
Efficacy: 7.8 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: (L: 0 ' x W: -0.62 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 300
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	76	76	76	76	74	74	74	74	71	71	71		68	68	68		65	65	65	64
1	73	72	71	70	72	71	69	68	68	67	66		66	65	64		64	63	63	61
2	71	68	66	65	69	67	66	64	65	64	63		63	62	61		62	61	60	59
3	68	65	63	61	67	64	62	60	63	61	59		61	60	59		60	59	58	57
4	66	62	60	58	65	62	59	57	60	58	57		59	58	56		58	57	56	55
5	64	60	57	55	63	59	57	55	58	56	54		57	55	54		56	55	53	53
6	62	58	55	53	61	57	54	53	56	54	52		55	53	52		55	53	52	51
7	60	56	53	51	59	55	52	51	54	52	50		54	52	50		53	51	50	49
8	58	54	51	49	57	53	51	49	53	50	49		52	50	48		52	50	48	48
9	56	52	49	47	56	52	49	47	51	49	47		51	48	47		50	48	47	46
10	55	50	47	46	54	50	47	46	49	47	45		49	47	45		49	47	45	45

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°	708.6	30.4	19.4
10°-20°	974.4	41.8	26.7
20°-30°	495.5	21.2	13.6
30°-40°	107.8	4.6	3.0
40°-50°	45.1	1.9	1.2
50°-60°	1.1	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	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°	2178.5	93.4	59.7
0°-40°	2286.3	98.0	62.6
0°-60°	2332.5	100.0	63.9
0°-90°	2332.5	100.0	63.9
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°	2332.5	100.0	63.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9324	9324	9324	9324	9324	
5°	8240	8240	8240	8240	8240	709
15°	3517	3517	3517	3517	3517	974
25°	1120	1120	1120	1120	1120	496
35°	133	133	133	133	133	108
45°	67	67	67	67	67	45
55°	0	0	0	0	0	1
65°	0	0	0	0	0	0
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°	30°	60°	90°	120°	150°	180°
0°	9324	9324	9324	9324	9324	9324	9324
2.5°	9052	9052	9052	9052	9052	9052	9052
5°	8240	8240	8240	8240	8240	8240	8240
7.5°	7086	7086	7086	7086	7086	7086	7086
10°	5860	5860	5860	5860	5860	5860	5860
12.5°	4590	4590	4590	4590	4590	4590	4590
15°	3517	3517	3517	3517	3517	3517	3517
17.5°	2584	2584	2584	2584	2584	2584	2584
20°	1883	1883	1883	1883	1883	1883	1883
22.5°	1447	1447	1447	1447	1447	1447	1447
25°	1120	1120	1120	1120	1120	1120	1120
27.5°	734	734	734	734	734	734	734
30°	419	419	419	419	419	419	419
32.5°	208	208	208	208	208	208	208
35°	133	133	133	133	133	133	133
37.5°	110	110	110	110	110	110	110
40°	95	95	95	95	95	95	95
42.5°	81	81	81	81	81	81	81
45°	67	67	67	67	67	67	67
47.5°	40	40	40	40	40	40	40
50°	4	4	4	4	4	4	4
52.5°	3	3	3	3	3	3	3
55°	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0

(END OF REPORT)