

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: E395768

Luminaire Tested: **H44-448**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395768
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H44-448
Description: HALO RECESSED INC - H44 HOUSING, BAFFLE
Light Source: 150R40SP, 1900 LUMENS
Ballast/Driver: -

Summary

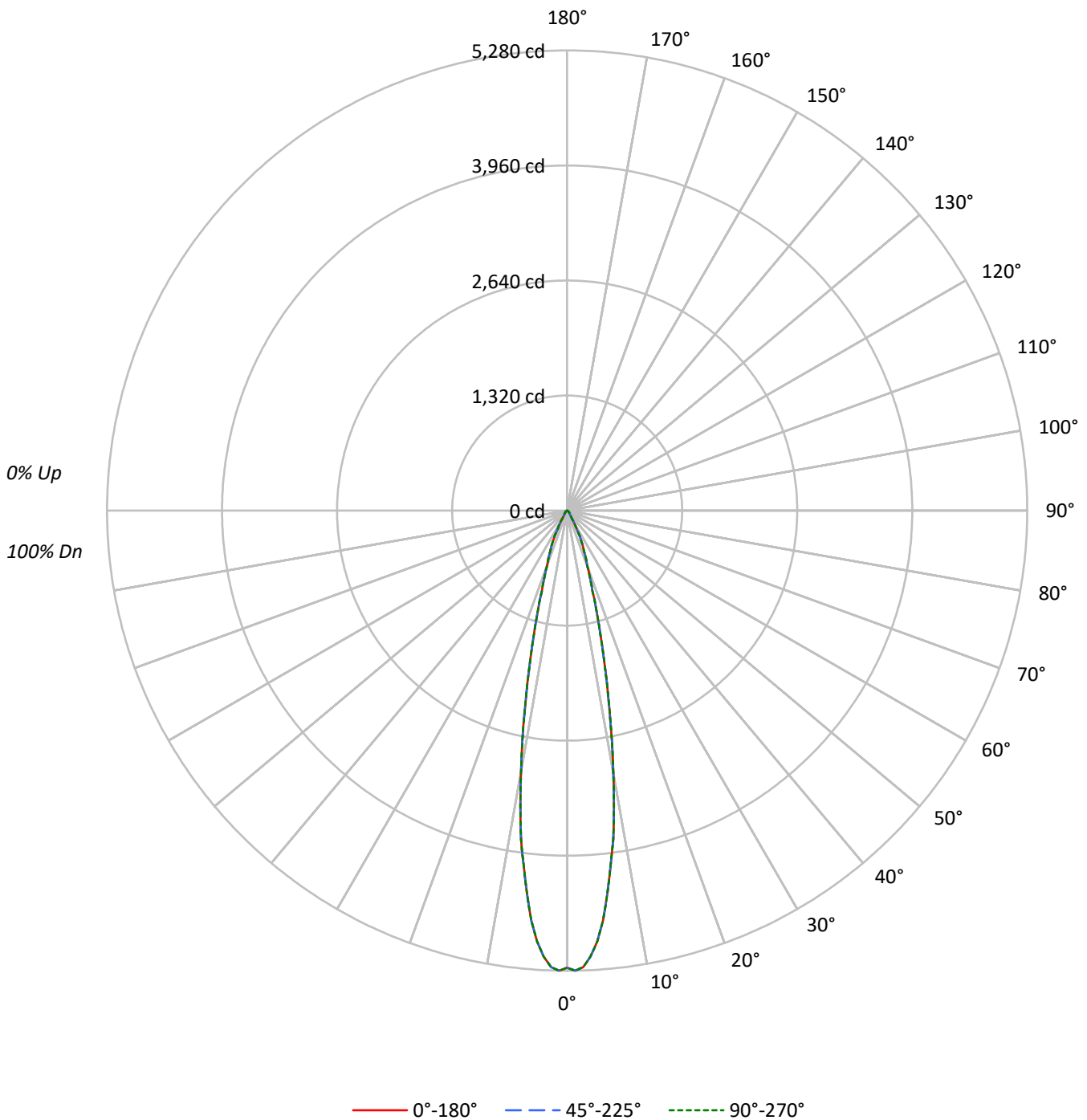
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1059.9 lumens
Efficiency: 55.8%
Efficacy: 7.1 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.38
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
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					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
RCR																						
0	66	66	66	66	65	65	65	65	62	62	62	59	59	59	57	57	57	56	56	56	54	54
1	64	63	62	61	63	62	61	60	60	59	58	58	57	56	56	55	55	54	53	53	52	52
2	62	60	58	57	61	59	58	56	57	56	55	56	55	54	54	53	53	52	51	51	50	50
3	60	57	55	54	59	57	55	53	55	54	52	54	53	52	53	52	51	50	49	49	48	48
4	58	55	53	51	57	54	52	51	53	52	50	52	51	50	51	50	49	49	48	48	47	47
5	56	53	51	49	56	53	50	49	52	50	48	51	49	48	50	49	48	47	46	46	45	45
6	55	51	49	47	54	51	49	47	50	48	47	49	48	46	49	47	46	46	45	45	44	44
7	53	50	47	46	53	49	47	45	49	47	45	48	46	45	47	46	45	45	44	44	43	43
8	52	48	46	44	51	48	46	44	47	45	44	47	45	44	46	45	43	43	42	42	41	41
9	50	47	44	43	50	46	44	43	46	44	43	45	44	42	45	43	42	42	41	41	40	40
10	49	45	43	42	49	45	43	41	45	43	41	44	43	41	44	42	41	41	40	40	39	39

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°	395.0	37.3	20.8
10°-20°	422.4	39.9	22.2
20°-30°	171.0	16.1	9.0
30°-40°	41.6	3.9	2.2
40°-50°	25.5	2.4	1.3
50°-60°	4.3	0.4	0.2
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°	988.4	93.3	52.0
0°-40°	1030.0	97.2	54.2
0°-60°	1059.9	100.0	55.8
0°-90°	1059.9	100.0	55.8
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°	1059.9	100.0	55.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5244	5244	5244	5244	5244	
5°	4724	4724	4724	4724	4724	395
15°	1473	1473	1473	1473	1473	422
25°	382	382	382	382	382	171
35°	57	57	57	57	57	42
45°	34	34	34	34	34	26
55°	0	0	0	0	0	4
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°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5244	5244	5244	5244	5244	5244	5244	5244	5244
1°	5280	5280	5280	5280	5280	5280	5280	5280	5280
2°	5242	5242	5242	5242	5242	5242	5242	5242	5242
3°	5125	5125	5125	5125	5125	5125	5125	5125	5125
4°	4953	4953	4953	4953	4953	4953	4953	4953	4953
5°	4724	4724	4724	4724	4724	4724	4724	4724	4724
6°	4417	4417	4417	4417	4417	4417	4417	4417	4417
7°	4094	4094	4094	4094	4094	4094	4094	4094	4094
8°	3810	3810	3810	3810	3810	3810	3810	3810	3810
9°	3432	3432	3432	3432	3432	3432	3432	3432	3432
10°	3041	3041	3041	3041	3041	3041	3041	3041	3041
11°	2700	2700	2700	2700	2700	2700	2700	2700	2700
12°	2327	2327	2327	2327	2327	2327	2327	2327	2327
13°	2020	2020	2020	2020	2020	2020	2020	2020	2020
14°	1740	1740	1740	1740	1740	1740	1740	1740	1740
15°	1473	1473	1473	1473	1473	1473	1473	1473	1473
17.5°	970	970	970	970	970	970	970	970	970
20°	677	677	677	677	677	677	677	677	677
22.5°	515	515	515	515	515	515	515	515	515
25°	382	382	382	382	382	382	382	382	382
27.5°	235	235	235	235	235	235	235	235	235
30°	142	142	142	142	142	142	142	142	142
32.5°	70	70	70	70	70	70	70	70	70
35°	57	57	57	57	57	57	57	57	57
37.5°	50	50	50	50	50	50	50	50	50
40°	45	45	45	45	45	45	45	45	45
45°	34	34	34	34	34	34	34	34	34
50°	20	20	20	20	20	20	20	20	20
55°	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0
70°	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)