

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: E395769

Luminaire Tested: **H44-448**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395769
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: 150PAR38FL, 1740 LUMENS
Ballast/Driver: -

Summary

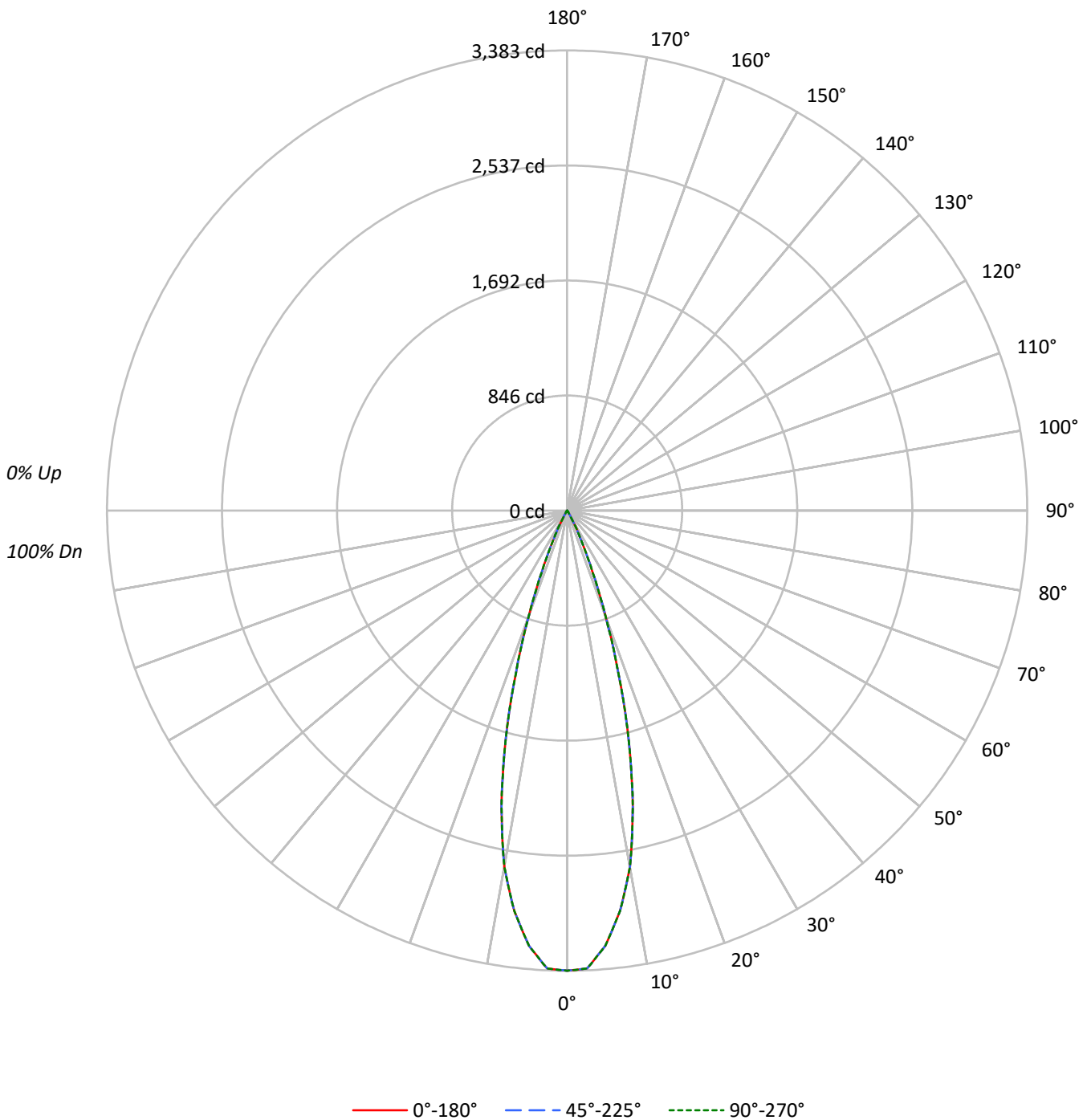
Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 906.9 lumens
Efficiency: 52.1%
Efficacy: 6.0 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.49
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

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	62	62	62	62	61	61	61	61	58	58	58	55	55	55	53	53	53	52	52	52	50	50	50
1	60	59	58	57	59	58	57	56	56	55	54	54	53	53	52	52	51	50	50	50	49	49	49
2	58	56	55	53	57	55	54	53	54	53	52	52	51	51	51	50	50	49	49	49	48	48	48
3	56	54	52	51	55	53	52	50	52	51	49	51	50	49	50	49	48	47	47	47	46	46	46
4	55	52	50	48	54	51	49	48	50	49	47	49	48	47	48	47	46	46	46	46	45	45	45
5	53	50	48	46	52	50	48	46	49	47	46	48	46	45	47	46	45	45	45	45	44	44	44
6	51	48	46	45	51	48	46	44	47	46	44	47	45	44	46	45	44	44	44	44	43	43	43
7	50	47	45	43	49	46	44	43	46	44	43	45	44	43	45	43	42	43	43	43	42	42	42
8	49	45	43	42	48	45	43	42	45	43	42	44	43	41	44	42	41	42	42	42	41	41	41
9	47	44	42	40	47	44	42	40	43	42	40	43	41	40	43	41	40	41	41	41	40	40	40
10	46	43	41	39	46	43	41	39	42	40	39	42	40	39	42	40	39	40	40	40	39	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°	288.8	31.8	16.6
10°-20°	466.7	51.5	26.8
20°-30°	139.7	15.4	8.0
30°-40°	9.6	1.1	0.5
40°-50°	2.1	0.2	0.1
50°-60°	0.1	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°	895.2	98.7	51.4
0°-40°	904.7	99.8	52.0
0°-60°	906.9	100.0	52.1
0°-90°	906.9	100.0	52.1
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°	906.9	100.0	52.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3383	3383	3383	3383	3383	
5°	3212	3212	3212	3212	3212	289
15°	1746	1746	1746	1746	1746	467
25°	246	246	246	246	246	140
35°	11	11	11	11	11	10
45°	3	3	3	3	3	2
55°	0	0	0	0	0	0
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°	3383	3383	3383	3383	3383	3383	3383	3383	3383
2.5°	3369	3369	3369	3369	3369	3369	3369	3369	3369
5°	3212	3212	3212	3212	3212	3212	3212	3212	3212
7.5°	2971	2971	2971	2971	2971	2971	2971	2971	2971
10°	2658	2658	2658	2658	2658	2658	2658	2658	2658
12.5°	2230	2230	2230	2230	2230	2230	2230	2230	2230
15°	1746	1746	1746	1746	1746	1746	1746	1746	1746
17.5°	1255	1255	1255	1255	1255	1255	1255	1255	1255
20°	818	818	818	818	818	818	818	818	818
22.5°	483	483	483	483	483	483	483	483	483
25°	246	246	246	246	246	246	246	246	246
27.5°	132	132	132	132	132	132	132	132	132
30°	48	48	48	48	48	48	48	48	48
32.5°	18	18	18	18	18	18	18	18	18
35°	11	11	11	11	11	11	11	11	11
37.5°	8	8	8	8	8	8	8	8	8
40°	5	5	5	5	5	5	5	5	5
42.5°	4	4	4	4	4	4	4	4	4
45°	3	3	3	3	3	3	3	3	3
47.5°	1	1	1	1	1	1	1	1	1
50°	1	1	1	1	1	1	1	1	1
52.5°	0	0	0	0	0	0	0	0	0
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)