

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: E395770

Luminaire Tested: **H44-448**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395770
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: 150PAR38SP, 1740 LUMENS
Ballast/Driver: -

Summary

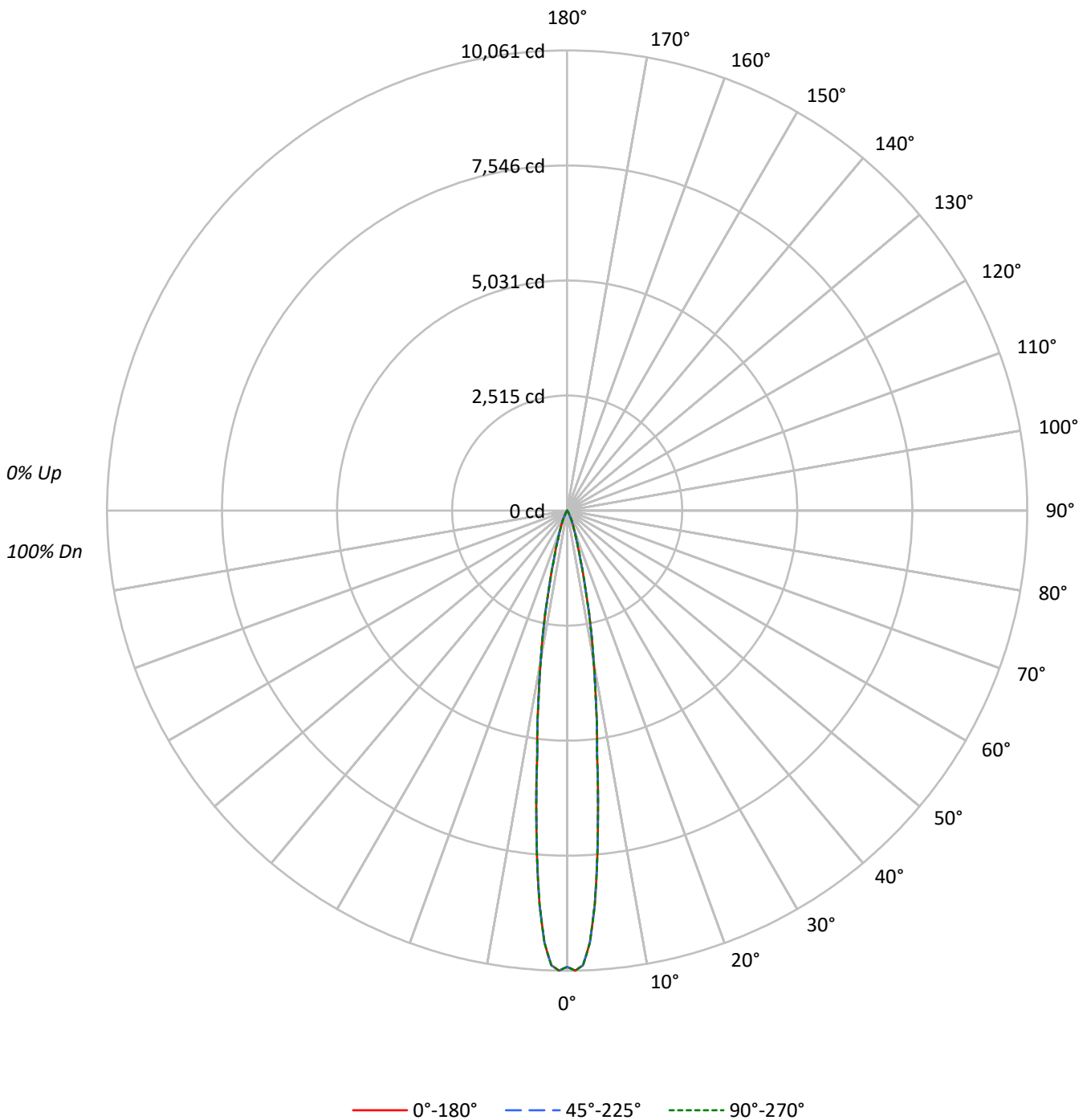
Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 1033.8 lumens
Efficiency: 59.4%
Efficacy: 6.9 lumens/watt
Spacing Criteria (0/90/45): 0.26 / 0.26 / 0.28
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

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	71	71	71	71	69	69	69	69	66	66	66	66	63	63	63	63	61	61	61	61	59
1	69	68	67	66	67	66	65	65	64	63	63	63	62	61	61	61	60	59	59	59	58
2	67	65	64	62	66	64	63	62	62	61	60	60	61	60	59	59	59	58	58	58	57
3	65	63	61	60	64	62	60	59	61	59	58	58	59	58	57	57	58	57	57	57	56
4	64	61	59	58	63	60	59	57	59	58	57	57	58	57	56	56	57	56	55	55	55
5	62	59	57	56	62	59	57	56	58	56	55	55	57	56	55	55	56	55	54	54	54
6	61	58	56	54	60	58	56	54	57	55	54	54	56	55	54	54	55	54	53	53	53
7	60	57	55	53	59	56	54	53	56	54	53	53	55	54	53	53	55	53	52	52	52
8	59	55	53	52	58	55	53	52	55	53	52	52	54	53	52	52	54	52	51	51	51
9	58	54	52	51	57	54	52	51	54	52	51	51	53	52	51	51	53	52	51	51	50
10	57	53	51	50	56	53	51	50	53	51	50	50	52	51	50	50	52	51	50	50	49

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°	569.3	55.1	32.7
10°-20°	362.7	35.1	20.8
20°-30°	92.7	9.0	5.3
30°-40°	7.8	0.7	0.4
40°-50°	1.3	0.1	0.1
50°-60°	0.0	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°	1024.8	99.1	58.9
0°-40°	1032.5	99.9	59.3
0°-60°	1033.8	100.0	59.4
0°-90°	1033.8	100.0	59.4
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°	1033.8	100.0	59.4

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9974	9974	9974	9974	9974	
5°	7578	7578	7578	7578	7578	569
15°	1139	1139	1139	1139	1139	363
25°	161	161	161	161	161	93
35°	8	8	8	8	8	8
45°	2	2	2	2	2	1
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°	9974	9974	9974	9974	9974	9974	9974	9974	9974
1°	10061	10061	10061	10061	10061	10061	10061	10061	10061
2°	9948	9948	9948	9948	9948	9948	9948	9948	9948
3°	9458	9458	9458	9458	9458	9458	9458	9458	9458
4°	8634	8634	8634	8634	8634	8634	8634	8634	8634
5°	7578	7578	7578	7578	7578	7578	7578	7578	7578
6°	6462	6462	6462	6462	6462	6462	6462	6462	6462
7°	5384	5384	5384	5384	5384	5384	5384	5384	5384
8°	4657	4657	4657	4657	4657	4657	4657	4657	4657
9°	3927	3927	3927	3927	3927	3927	3927	3927	3927
10°	3317	3317	3317	3317	3317	3317	3317	3317	3317
11°	2806	2806	2806	2806	2806	2806	2806	2806	2806
12°	2300	2300	2300	2300	2300	2300	2300	2300	2300
13°	1843	1843	1843	1843	1843	1843	1843	1843	1843
14°	1474	1474	1474	1474	1474	1474	1474	1474	1474
15°	1139	1139	1139	1139	1139	1139	1139	1139	1139
17.5°	659	659	659	659	659	659	659	659	659
20°	459	459	459	459	459	459	459	459	459
22.5°	317	317	317	317	317	317	317	317	317
25°	161	161	161	161	161	161	161	161	161
27.5°	118	118	118	118	118	118	118	118	118
30°	47	47	47	47	47	47	47	47	47
32.5°	14	14	14	14	14	14	14	14	14
35°	8	8	8	8	8	8	8	8	8
37.5°	5	5	5	5	5	5	5	5	5
40°	3	3	3	3	3	3	3	3	3
45°	2	2	2	2	2	2	2	2	2
50°	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)