

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: E395589

Luminaire Tested: **H44-446**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395589
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H44-446
Description: HALO RECESSED INC - H44 HOUSING, CLEAR SPECULAR REFL
Light Source: 75R30FL, 900 LUMENS
Ballast/Driver: -

Summary

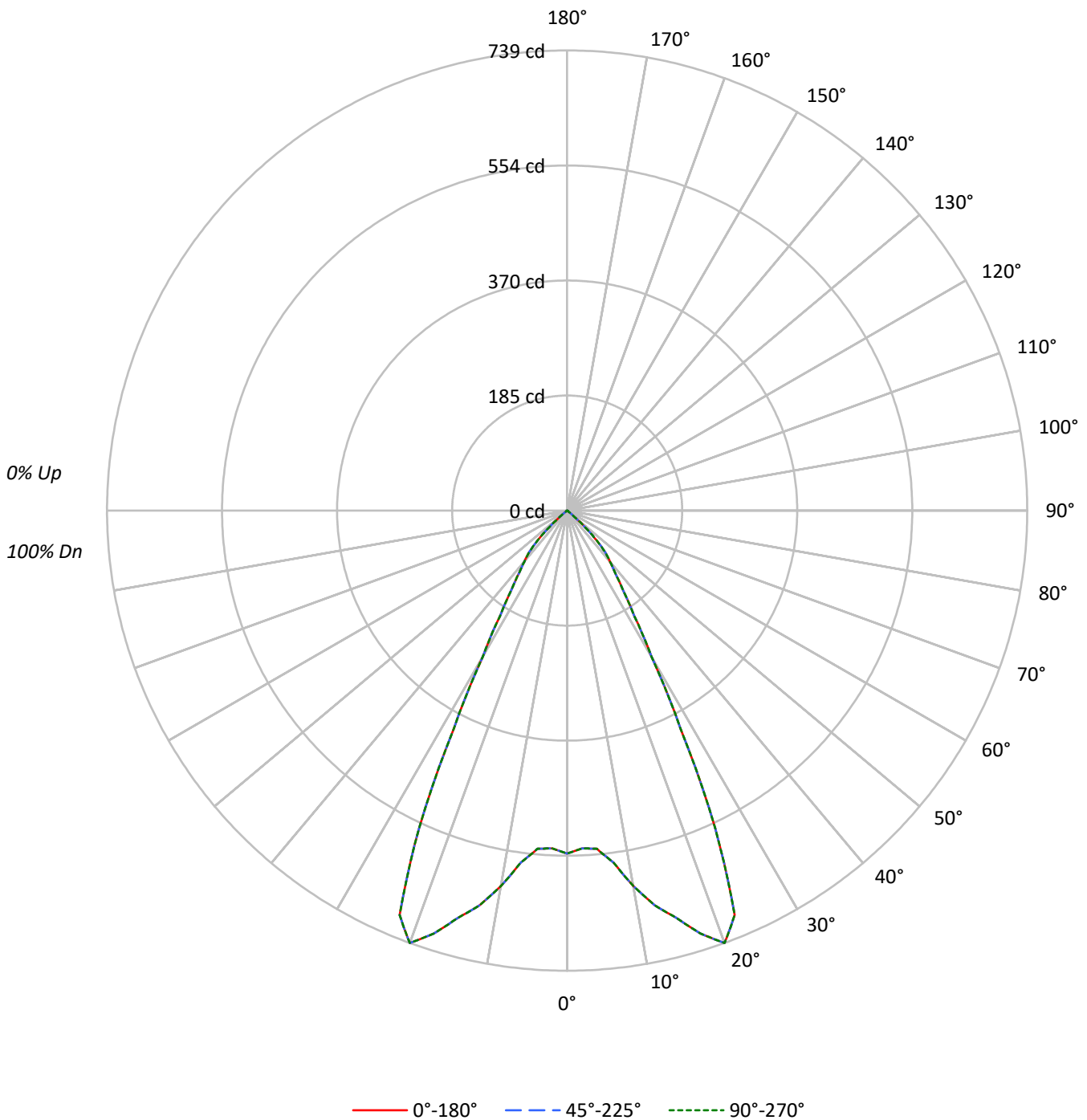
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 644.2 lumens
Efficiency: 71.6%
Efficacy: 8.6 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.87
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
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



TEST NUMBER: E395589
CATALOG NUMBER: H44-446

Luminous Intensity Polar Plot





TEST NUMBER: E395589
 CATALOG NUMBER: H44-446

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	85	85	85	85	83	83	83	83	80	80	80	76	76	76	73	73	73	72		
1	81	79	78	76	80	78	76	75	75	74	73	72	71	70	70	69	68	67		
2	77	74	71	69	76	73	70	68	70	68	66	68	67	65	66	65	64	63		
3	74	69	66	63	72	68	65	62	66	64	61	64	62	60	63	61	59	58		
4	70	65	61	58	69	64	60	57	62	59	57	61	58	56	59	57	55	54		
5	66	61	56	53	65	60	56	53	59	55	53	57	54	52	56	54	52	51		
6	63	57	53	50	62	56	52	49	55	52	49	54	51	49	53	51	48	47		
7	60	53	49	46	59	53	49	46	52	48	46	51	48	46	50	48	45	44		
8	57	50	46	43	56	50	46	43	49	46	43	48	45	43	48	45	43	42		
9	54	48	43	40	54	47	43	40	46	43	40	46	43	40	45	42	40	39		
10	52	45	41	38	51	45	41	38	44	40	38	43	40	38	43	40	38	37		

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°			



TEST NUMBER: E395589
 CATALOG NUMBER: H44-446

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	54.3	8.4	6.0
10°-20°	194.1	30.1	21.6
20°-30°	243.4	37.8	27.0
30°-40°	103.9	16.1	11.5
40°-50°	46.1	7.2	5.1
50°-60°	2.2	0.3	0.2
60°-70°	0.1	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°	491.8	76.3	54.6
0°-40°	595.7	92.5	66.2
0°-60°	644.1	100.0	71.6
0°-90°	644.2	100.0	71.6
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°	644.2	100.0	71.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	551	551	551	551	551	
5°	545	545	545	545	545	54
15°	677	677	677	677	677	194
25°	563	563	563	563	563	243
35°	157	157	157	157	157	104
45°	63	63	63	63	63	46
55°	1	1	1	1	1	2
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	



TEST NUMBER: E395589
 CATALOG NUMBER: H44-446

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	551	551	551	551	551	551	551
2.5°	543	543	543	543	543	543	543
5°	545	545	545	545	545	545	545
7.5°	570	570	570	570	570	570	570
10°	612	612	612	612	612	612	612
12.5°	649	649	649	649	649	649	649
15°	677	677	677	677	677	677	677
17.5°	712	712	712	712	712	712	712
20°	739	739	739	739	739	739	739
22.5°	703	703	703	703	703	703	703
25°	563	563	563	563	563	563	563
27.5°	394	394	394	394	394	394	394
30°	271	271	271	271	271	271	271
32.5°	201	201	201	201	201	201	201
35°	157	157	157	157	157	157	157
37.5°	127	127	127	127	127	127	127
40°	107	107	107	107	107	107	107
42.5°	90	90	90	90	90	90	90
45°	63	63	63	63	63	63	63
47.5°	32	32	32	32	32	32	32
50°	11	11	11	11	11	11	11
52.5°	2	2	2	2	2	2	2
55°	1	1	1	1	1	1	1
57.5°	1	1	1	1	1	1	1
60°	1	1	1	1	1	1	1
62.5°	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0
67.5°	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)