

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: E395588

Luminaire Tested: **H44-446**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395588
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: 75R30SP, 900 LUMENS
Ballast/Driver: -

Summary

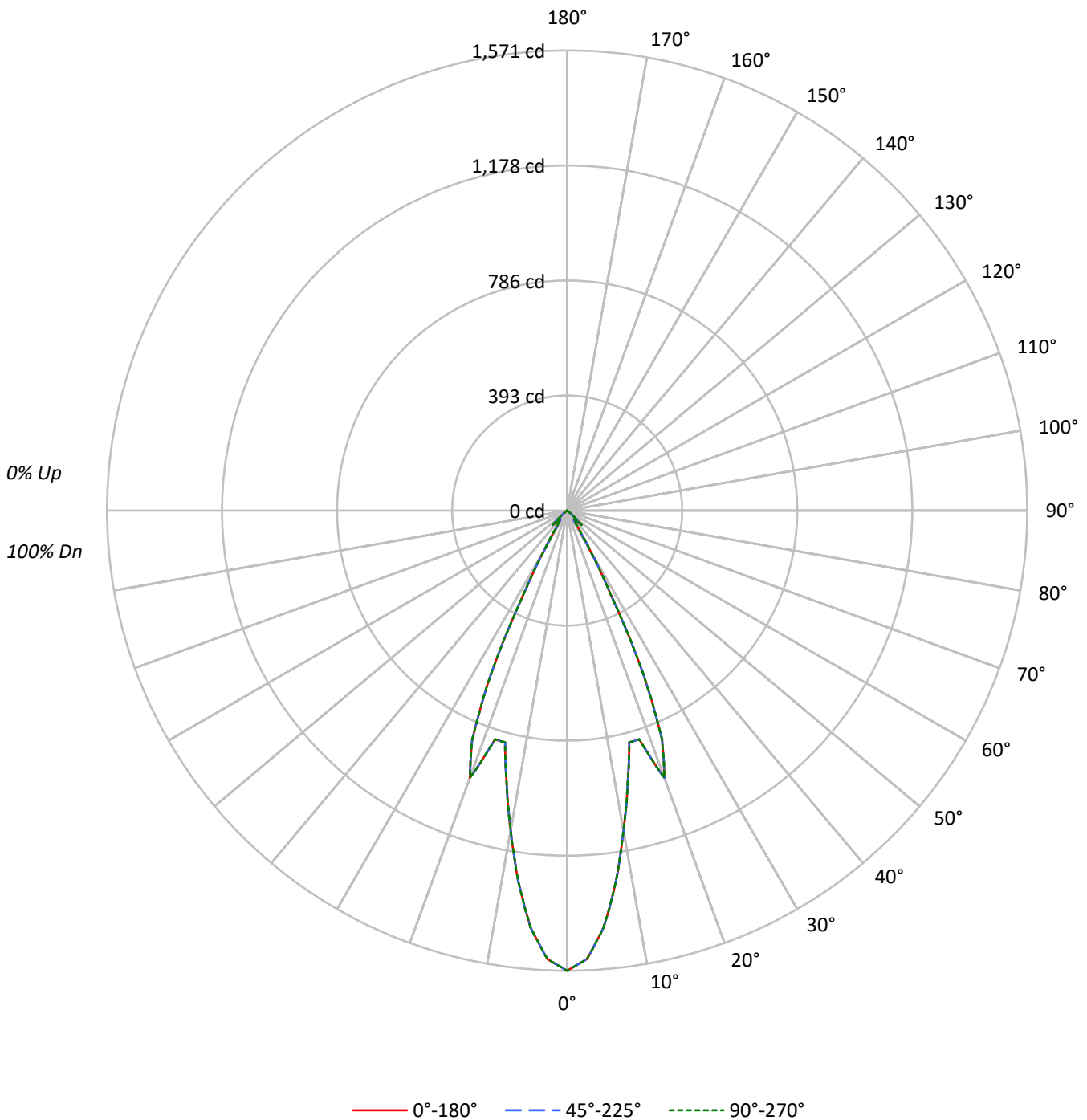
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 715.3 lumens
Efficiency: 79.5%
Efficacy: 9.5 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.68
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
Input Voltage (V): NR
Input Current (A_{in}): 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	95	95	95	95	92	92	92	92	88	88	88	85	85	85	81	81	81	79		
1	91	89	87	85	89	87	86	84	84	83	82	81	80	79	78	78	77	75		
2	87	84	81	78	85	82	80	77	80	78	76	77	76	74	75	74	73	71		
3	83	79	75	73	82	78	75	72	76	73	71	74	72	70	72	70	69	68		
4	80	75	71	68	79	74	70	68	72	69	67	71	68	66	69	67	65	64		
5	77	71	67	64	75	70	66	64	69	65	63	67	65	62	66	64	62	61		
6	73	67	63	60	72	67	63	60	66	62	60	65	62	59	64	61	59	58		
7	70	64	60	57	70	64	60	57	63	59	57	62	59	56	61	58	56	55		
8	68	61	57	54	67	61	57	54	60	56	54	59	56	54	58	56	53	53		
9	65	58	54	52	64	58	54	52	57	54	51	57	54	51	56	53	51	50		
10	63	56	52	49	62	56	52	49	55	52	49	54	51	49	54	51	49	48		

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°	126.0	17.6	14.0
10°-20°	254.7	35.6	28.3
20°-30°	259.3	36.3	28.8
30°-40°	37.0	5.2	4.1
40°-50°	36.0	5.0	4.0
50°-60°	2.3	0.3	0.3
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°	640.0	89.5	71.1
0°-40°	677.0	94.6	75.2
0°-60°	715.3	100.0	79.5
0°-90°	715.3	100.0	79.5
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°	715.3	100.0	79.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1571	1571	1571	1571	1571	
5°	1429	1429	1429	1429	1429	126
15°	819	819	819	819	819	255
25°	616	616	616	616	616	259
35°	41	41	41	41	41	37
45°	70	70	70	70	70	36
55°	0	0	0	0	0	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	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1571	1571	1571	1571	1571	1571	1571
2.5°	1533	1533	1533	1533	1533	1533	1533
5°	1429	1429	1429	1429	1429	1429	1429
7.5°	1277	1277	1277	1277	1277	1277	1277
10°	1109	1109	1109	1109	1109	1109	1109
12.5°	955	955	955	955	955	955	955
15°	819	819	819	819	819	819	819
17.5°	819	819	819	819	819	819	819
20°	971	971	971	971	971	971	971
22.5°	846	846	846	846	846	846	846
25°	616	616	616	616	616	616	616
27.5°	323	323	323	323	323	323	323
30°	154	154	154	154	154	154	154
32.5°	68	68	68	68	68	68	68
35°	41	41	41	41	41	41	41
37.5°	38	38	38	38	38	38	38
40°	38	38	38	38	38	38	38
42.5°	54	54	54	54	54	54	54
45°	70	70	70	70	70	70	70
47.5°	38	38	38	38	38	38	38
50°	13	13	13	13	13	13	13
52.5°	4	4	4	4	4	4	4
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)