

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: E395583

Luminaire Tested: **H46-466**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: E395583  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H46-466  
Description: HALO RECESSED INC - H46 HOUSING, CLEAR SPECULAR REFL  
Light Source: 300R40SP, 3650 LUMENS  
Ballast/Driver: -

**Summary**

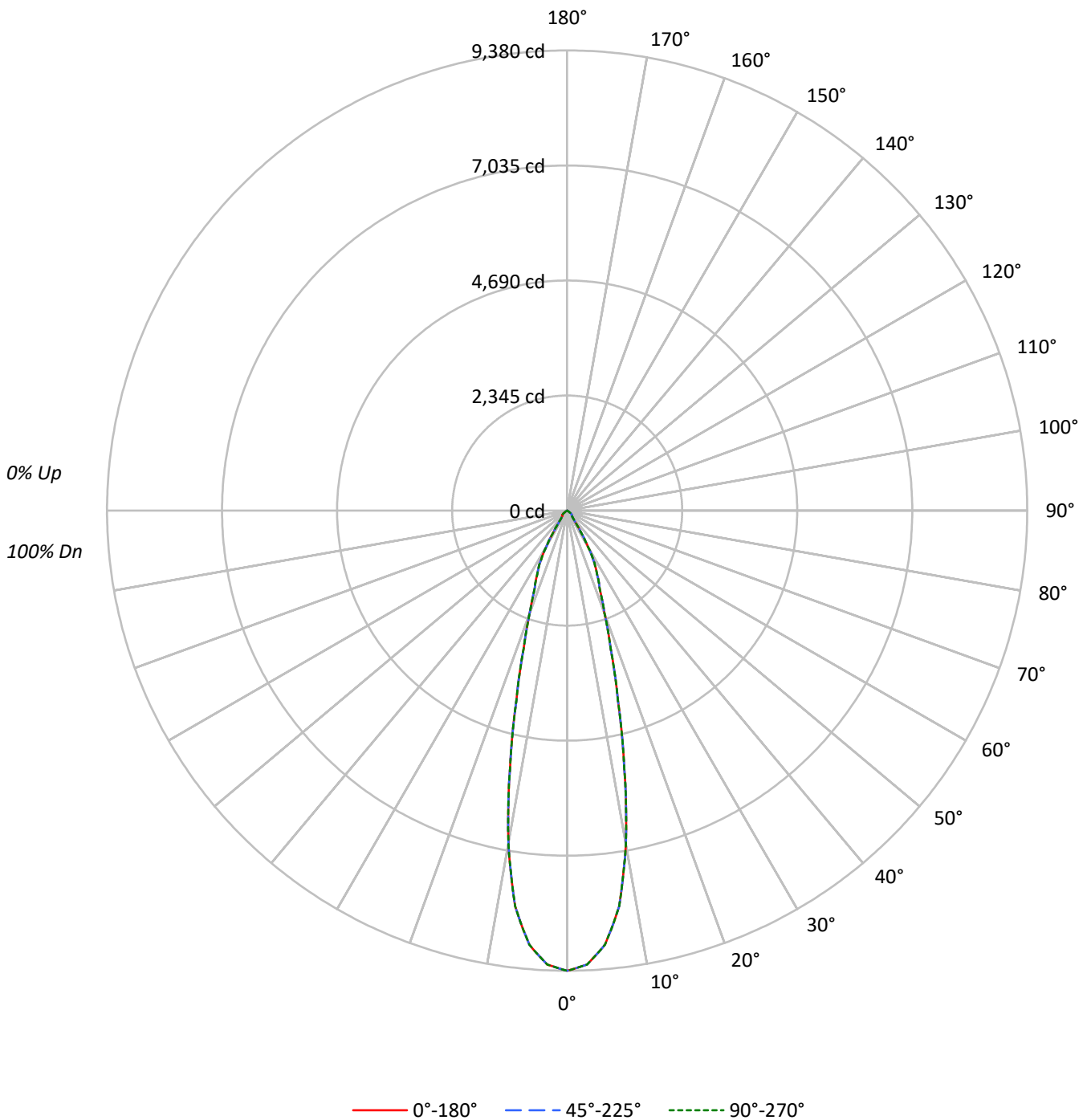
Lumens per Lamp: 3650 (1 lamp)  
Luminaire Lumens: 2971.9 lumens  
Efficiency: 81.4%  
Efficacy: 9.9 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.47  
Luminous Opening: (L: 0 ' x W: -0.62 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 300  
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: E395583  
CATALOG NUMBER: H46-466

### Luminous Intensity Polar Plot





TEST NUMBER: E395583  
 CATALOG NUMBER: H46-466

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	97	97	97	97	95	95	95	95	90	90	90	87	87	87	83	83	83	81				81
1	93	91	90	88	91	90	88	87	86	85	84	83	82	81	81	80	79	78				78
2	90	86	83	81	88	85	82	80	82	80	79	80	78	77	78	76	75	74				74
3	86	82	78	76	85	81	78	75	79	76	74	77	75	73	75	73	72	71				71
4	83	78	74	71	81	77	73	71	75	72	70	74	71	69	72	70	68	67				67
5	80	74	70	67	79	73	70	67	72	69	67	71	68	66	70	67	66	64				64
6	77	71	67	64	76	70	67	64	69	66	64	68	65	63	67	65	63	62				62
7	74	68	64	61	73	68	64	61	67	63	61	66	63	61	65	62	60	59				59
8	72	65	61	59	71	65	61	59	64	61	58	63	60	58	63	60	58	57				57
9	69	63	59	56	68	63	59	56	62	58	56	61	58	56	61	58	56	55				55
10	67	61	57	54	66	60	57	54	60	56	54	59	56	54	59	56	54	53				53

**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: E395583  
 CATALOG NUMBER: H46-466

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	785.9	26.4	21.5
10°-20°	1130.3	38.0	31.0
20°-30°	672.6	22.6	18.4
30°-40°	229.3	7.7	6.3
40°-50°	107.2	3.6	2.9
50°-60°	46.7	1.6	1.3
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°	2588.8	87.1	70.9
0°-40°	2818.1	94.8	77.2
0°-60°	2971.9	100.0	81.4
0°-90°	2971.9	100.0	81.4
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°	2971.9	100.0	81.4

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9380	9380	9380	9380	9380	
5°	8880	8880	8880	8880	8880	786
15°	4001	4001	4001	4001	4001	1130
25°	1461	1461	1461	1461	1461	673
35°	290	290	290	290	290	229
45°	138	138	138	138	138	107
55°	48	48	48	48	48	47
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: E395583  
 CATALOG NUMBER: H46-466

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°
0°	9380	9380	9380	9380	9380	9380	9380
2.5°	9265	9265	9265	9265	9265	9265	9265
5°	8880	8880	8880	8880	8880	8880	8880
7.5°	8136	8136	8136	8136	8136	8136	8136
10°	6905	6905	6905	6905	6905	6905	6905
12.5°	5395	5395	5395	5395	5395	5395	5395
15°	4001	4001	4001	4001	4001	4001	4001
17.5°	2952	2952	2952	2952	2952	2952	2952
20°	2236	2236	2236	2236	2236	2236	2236
22.5°	1745	1745	1745	1745	1745	1745	1745
25°	1461	1461	1461	1461	1461	1461	1461
27.5°	1207	1207	1207	1207	1207	1207	1207
30°	857	857	857	857	857	857	857
32.5°	519	519	519	519	519	519	519
35°	290	290	290	290	290	290	290
37.5°	194	194	194	194	194	194	194
40°	163	163	163	163	163	163	163
42.5°	148	148	148	148	148	148	148
45°	138	138	138	138	138	138	138
47.5°	135	135	135	135	135	135	135
50°	107	107	107	107	107	107	107
52.5°	105	105	105	105	105	105	105
55°	48	48	48	48	48	48	48
57.5°	7	7	7	7	7	7	7
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)