

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: E395575

Luminaire Tested: **H44-440**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395575
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H44-440
Description: HALO RECESSED INC - H44 HOUSING, WALL WASH
Light Source: 150R40FL, 1900 LUMENS
Ballast/Driver: -

Summary

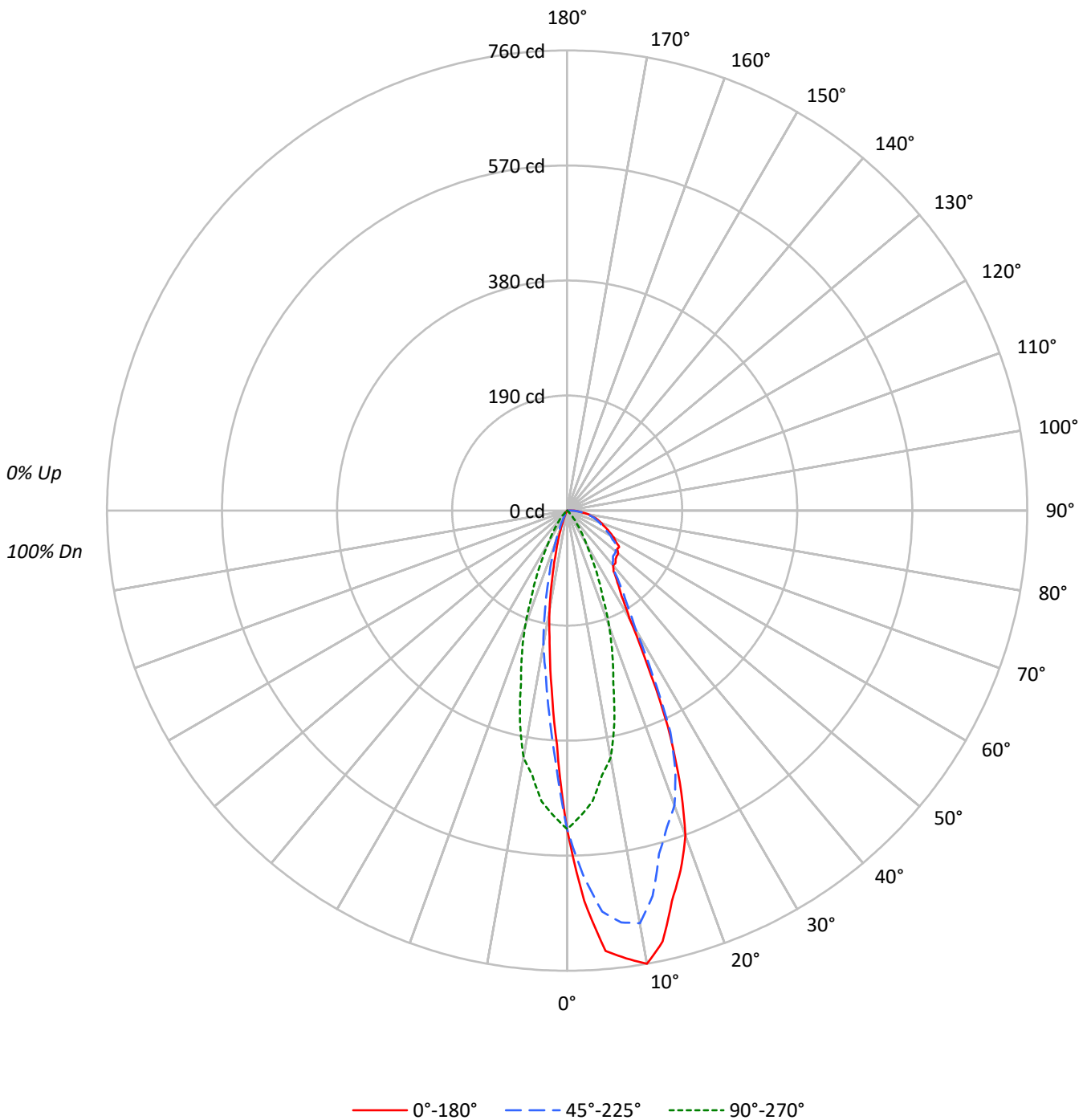
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 393.3 lumens
Efficiency: 20.7%
Efficacy: 2.6 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.54 / 0.7
Luminous Opening: (L: 0 ' x W: -0.34 ' x H: 0 '
CIE Type: Direct

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	25	25	25	25	24	24	24	24	23	23	23	22	22	22	21	21	21	21
1	23	22	21	21	22	22	21	20	21	20	20	20	20	19	19	19	19	18
2	21	20	19	18	21	20	19	18	19	18	17	18	18	17	18	17	17	16
3	20	18	17	16	20	18	17	16	17	16	16	17	16	15	16	16	15	15
4	19	17	15	14	18	17	15	14	16	15	14	16	15	14	15	14	14	13
5	18	16	14	13	17	15	14	13	15	14	13	15	14	13	14	13	13	12
6	17	15	13	12	16	14	13	12	14	13	12	14	13	12	13	12	12	11
7	16	14	12	11	16	14	12	11	13	12	11	13	12	11	13	12	11	11
8	15	13	11	10	15	13	11	10	12	11	10	12	11	10	12	11	10	10
9	14	12	11	10	14	12	11	10	12	11	10	12	11	10	11	10	10	9
10	14	12	10	9	14	11	10	9	11	10	9	11	10	9	11	10	9	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
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°	45.9	11.7	2.4
10°-20°	98.7	25.1	5.2
20°-30°	84.8	21.6	4.5
30°-40°	43.2	11.0	2.3
40°-50°	34.2	8.7	1.8
50°-60°	33.3	8.5	1.8
60°-70°	25.9	6.6	1.4
70°-80°	18.4	4.7	1.0
80°-90°	8.4	2.1	0.4
90°-100°	0.5	0.1	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°	229.4	58.3	12.1
0°-40°	272.6	69.3	14.3
0°-60°	340.1	86.5	17.9
0°-90°	392.8	99.9	20.7
90°-120°	0.5	0.1	0.0
90°-150°	0.5	0.1	0.0
90°-180°	1.0	0.3	0.1
0°-180°	393.3	100.0	20.7

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	526	526	526	526	526	
5°	730	665	482	338	294	69
15°	668	587	295	119	71	187
25°	393	403	119	19	7	175
35°	145	155	35	2	3	93
45°	113	107	5	0	0	88
55°	105	100	1	0	0	90
65°	73	66	0	0	0	72
75°	49	46	0	0	0	50
85°	20	19	0	0	0	20
90°	11	9	0	0	0	5
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	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°	526	526	526	526	526	526	526	526	526
2.5°	645	634	602	558	505	458	419	395	387
5°	730	714	665	587	482	397	338	306	294
7.5°	746	735	686	591	441	335	271	234	221
10°	760	747	692	597	414	296	226	183	167
12.5°	729	715	652	558	360	246	170	127	113
15°	668	652	587	495	295	194	119	83	71
17.5°	623	611	548	453	248	153	83	51	44
20°	571	569	518	415	203	116	56	29	24
22.5°	486	496	467	366	153	80	32	12	10
25°	393	413	403	315	119	58	19	7	7
27.5°	285	312	305	233	87	37	6	4	6
30°	206	236	225	158	63	23	3	3	3
32.5°	167	193	185	123	47	14	2	2	3
35°	145	166	155	100	35	6	2	2	3
37.5°	126	142	130	78	23	3	2	1	1
40°	118	131	117	66	15	0	0	0	0
42.5°	118	128	112	61	12	0	0	0	0
45°	113	124	107	55	5	0	0	0	0
47.5°	111	122	106	51	3	0	0	0	0
50°	110	119	105	49	2	0	0	0	0
52.5°	104	114	100	44	2	0	0	0	0
55°	105	112	100	43	1	0	0	0	0
57.5°	95	101	89	40	0	0	0	0	0
60°	89	92	83	36	0	0	0	0	0
62.5°	80	83	74	33	0	0	0	0	0
65°	73	72	66	30	0	0	0	0	0
67.5°	65	67	61	28	0	0	0	0	0
70°	60	61	56	27	0	0	0	0	0
72.5°	54	55	50	24	0	0	0	0	0
75°	49	50	46	22	0	0	0	0	0
77.5°	40	42	39	19	0	0	0	0	0
80°	36	36	34	17	0	0	0	0	0
82.5°	28	28	26	12	0	0	0	0	0
85°	20	21	19	8	0	0	0	0	0
87.5°	15	15	13	5	0	0	0	0	0
90°	11	11	9	4	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
130°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)