

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: E395573

Luminaire Tested: **H42-338**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395573
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H42-338
Description: HALO RECESSED INC - H42 HOUSING, BAFFLE, MAX TILT
Light Source: 300R40SP, 3650 LUMENS
Ballast/Driver: -

Summary

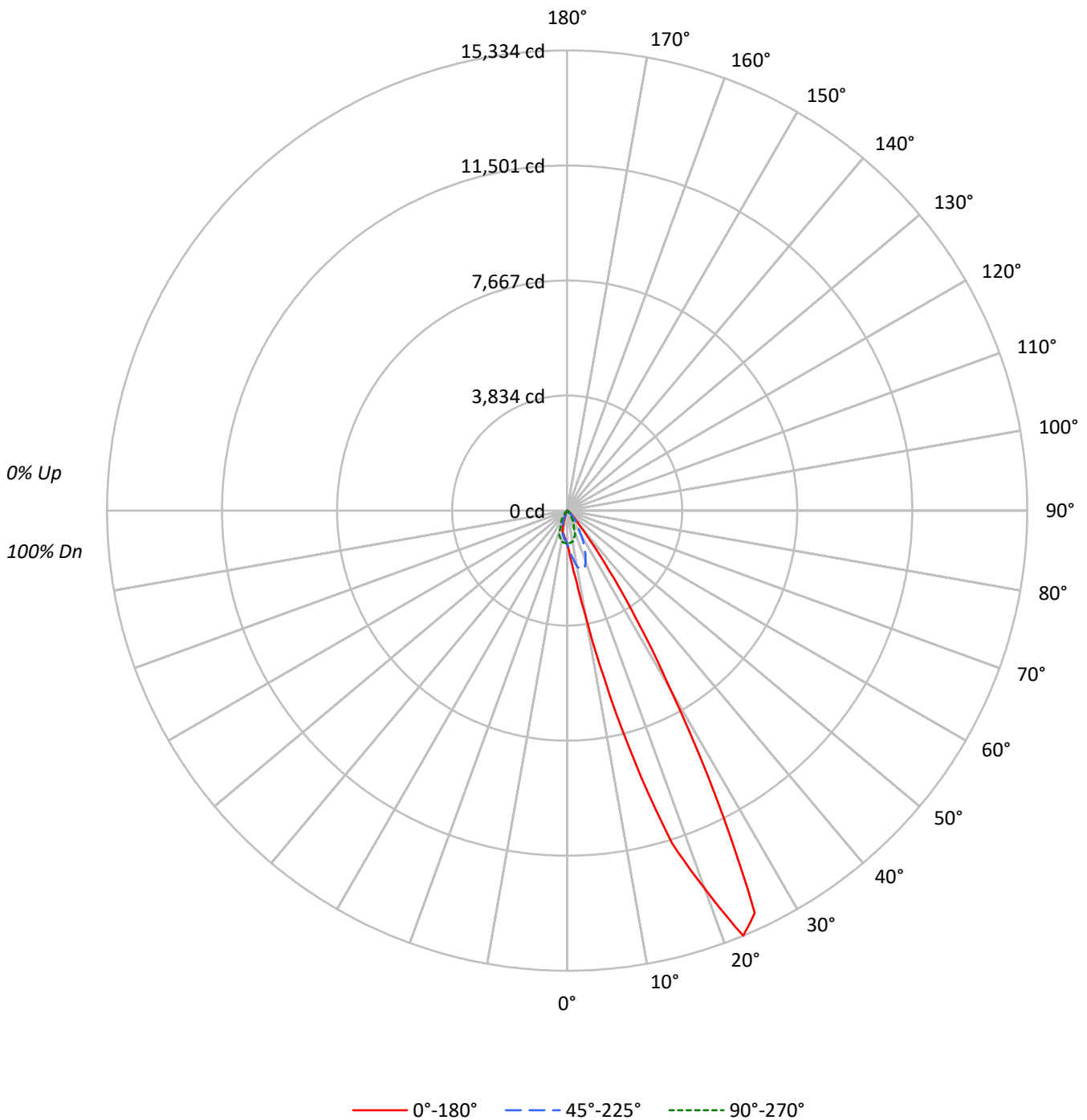
Lumens per Lamp: 3650 (1 lamp)
Luminaire Lumens: 2036.5 lumens
Efficiency: 55.8%
Efficacy: 6.8 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.75 / 0.85
Luminous Opening: (L: 0 ' x W: -0.6 ' x H: 0 '
CIE Type: Direct

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



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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	66	66	66	66	65	65	65	65	62	62	62	59	59	59	57	57	57	56	56	56
1	63	62	60	59	62	61	59	58	58	57	57	56	56	55	54	54	53	52	52	52
2	60	58	55	54	59	57	55	53	55	53	52	53	52	51	52	51	50	49	49	49
3	57	54	51	49	56	53	50	48	52	49	48	50	48	47	49	47	46	45	45	45
4	54	50	47	45	53	50	47	45	48	46	44	47	45	44	46	45	43	42	42	42
5	52	47	44	41	51	47	43	41	46	43	41	45	42	41	44	42	40	39	39	39
6	49	44	41	38	48	44	41	38	43	40	38	42	40	38	41	39	38	37	37	37
7	47	41	38	36	46	41	38	36	40	38	35	40	37	35	39	37	35	34	34	34
8	44	39	36	33	44	39	35	33	38	35	33	37	35	33	37	35	33	32	32	32
9	42	37	33	31	41	36	33	31	36	33	31	35	33	31	35	33	31	30	30	30
10	40	35	31	29	39	34	31	29	34	31	29	33	31	29	33	31	29	28	28	28

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°	122.8	6.0	3.4
10°-20°	581.9	28.6	15.9
20°-30°	911.8	44.8	25.0
30°-40°	323.1	15.9	8.9
40°-50°	73.0	3.6	2.0
50°-60°	22.9	1.1	0.6
60°-70°	1.1	0.1	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°	1616.4	79.4	44.3
0°-40°	1939.5	95.2	53.1
0°-60°	2035.4	99.9	55.8
0°-90°	2036.5	100.0	55.8
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°	2036.5	100.0	55.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1119	1119	1119	1119	1119	
5°	1772	1455	1085	968	908	221
15°	8573	1987	909	628	553	2593
25°	14793	1366	514	114	80	5790
35°	2421	671	128	44	20	1774
45°	276	156	14	0	0	236
55°	105	58	2	0	0	84
65°	0	3	0	0	0	2
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°	1119	1119	1119	1119	1119	1119	1119	1119	1119
2.5°	1313	1292	1224	1146	1078	1031	1001	984	978
5°	1772	1683	1455	1227	1085	1011	968	927	908
7.5°	2387	2156	1661	1244	1058	964	864	827	824
10°	3578	2880	1885	1261	1055	927	823	790	784
12.5°	5740	3918	2014	1230	1017	856	763	722	720
15°	8573	5315	1987	1143	909	762	628	551	553
17.5°	11627	7223	1966	1088	869	627	531	376	308
20°	13402	8165	1787	1024	703	546	383	188	137
22.5°	15334	8352	1594	960	571	442	222	114	107
25°	14793	7172	1366	774	514	340	114	91	80
27.5°	10665	4781	1163	679	436	196	91	64	54
30°	6869	2792	888	608	379	94	64	44	40
32.5°	4316	1748	726	497	243	81	54	40	34
35°	2421	1258	671	439	128	64	44	27	20
37.5°	1275	891	556	277	112	47	34	20	17
40°	663	588	353	176	95	27	13	10	10
42.5°	425	350	241	122	58	7	3	5	5
45°	276	248	156	108	14	7	0	0	0
47.5°	153	139	139	68	10	7	0	0	0
50°	126	122	129	20	3	3	0	0	0
52.5°	109	112	78	14	3	2	0	0	0
55°	105	105	58	10	2	0	0	0	0
57.5°	95	54	41	10	1	0	0	0	0
60°	7	7	7	7	0	0	0	0	0
62.5°	3	3	7	7	0	0	0	0	0
65°	0	0	3	0	0	0	0	0	0
67.5°	0	0	2	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)