

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: E395779

Luminaire Tested: **H42-338**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395779
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, 0 DEG TILT
Light Source: Q250PAR38FL, 3220 LUMENS
Ballast/Driver: -

Summary

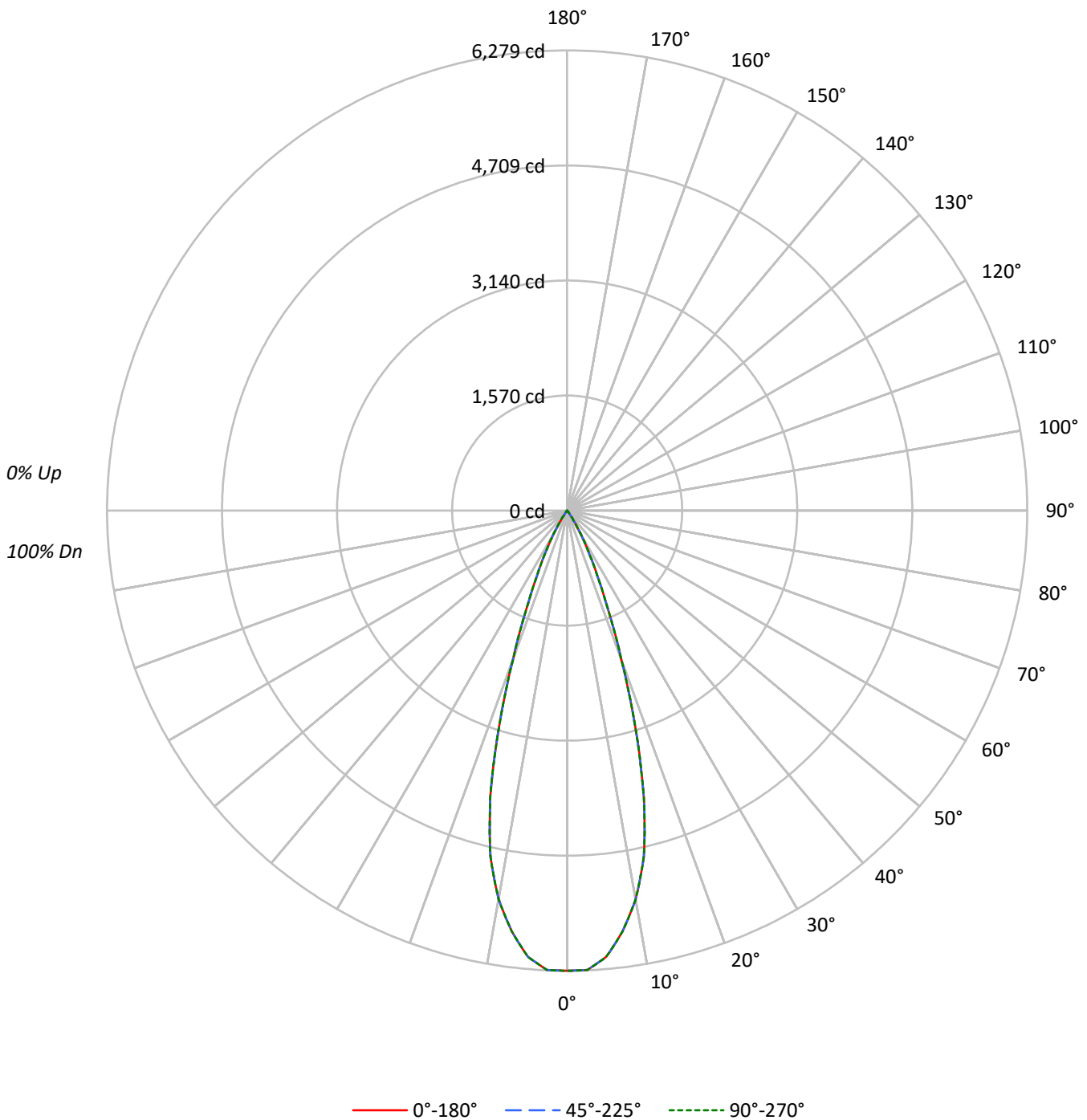
Lumens per Lamp: 3220 (1 lamp)
Luminaire Lumens: 2175.8 lumens
Efficiency: 67.6%
Efficacy: 8.7 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.54
Luminous Opening: (L: 0 ' x W: -0.6 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 250
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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CATALOG NUMBER: H42-338

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	80	80	80	80	79	79	79	79	75	75	75		72	72	72		69	69	69	68
1	78	76	75	74	76	75	73	72	72	71	70		69	69	68		67	67	66	65
2	75	72	70	68	73	71	69	68	69	68	66		67	66	65		65	64	64	63
3	72	69	66	64	71	68	66	64	66	65	63		65	63	62		63	62	61	60
4	70	66	63	61	69	65	63	61	64	62	60		63	61	59		62	60	59	58
5	68	63	60	58	67	63	60	58	62	59	58		61	59	57		60	58	57	56
6	65	61	58	56	65	61	58	56	60	57	55		59	57	55		58	56	55	54
7	63	59	56	54	63	58	56	54	58	55	53		57	55	53		56	54	53	52
8	61	57	54	52	61	56	54	52	56	53	51		55	53	51		55	52	51	50
9	60	55	52	50	59	54	52	50	54	51	50		53	51	49		53	51	49	49
10	58	53	50	48	57	53	50	48	52	50	48		52	49	48		51	49	48	47

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°	559.3	25.7	17.4
10°-20°	1067.2	49.0	33.1
20°-30°	471.3	21.7	14.6
30°-40°	73.9	3.4	2.3
40°-50°	4.2	0.2	0.1
50°-60°	0.0	0.0	0.0
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°	2097.8	96.4	65.1
0°-40°	2171.7	99.8	67.4
0°-60°	2175.8	100.0	67.6
0°-90°	2175.8	100.0	67.6
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°	2175.8	100.0	67.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6279	6279	6279	6279	6279	
5°	6114	6114	6114	6114	6114	559
15°	4050	4050	4050	4050	4050	1067
25°	958	958	958	958	958	471
35°	73	73	73	73	73	74
45°	3	3	3	3	3	4
55°	0	0	0	0	0	0
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°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6279	6279	6279	6279	6279	6279	6279	6279	6279
2.5°	6275	6275	6275	6275	6275	6275	6275	6275	6275
5°	6114	6114	6114	6114	6114	6114	6114	6114	6114
7.5°	5791	5791	5791	5791	5791	5791	5791	5791	5791
10°	5385	5385	5385	5385	5385	5385	5385	5385	5385
12.5°	4835	4835	4835	4835	4835	4835	4835	4835	4835
15°	4050	4050	4050	4050	4050	4050	4050	4050	4050
17.5°	3082	3082	3082	3082	3082	3082	3082	3082	3082
20°	2159	2159	2159	2159	2159	2159	2159	2159	2159
22.5°	1439	1439	1439	1439	1439	1439	1439	1439	1439
25°	958	958	958	958	958	958	958	958	958
27.5°	610	610	610	610	610	610	610	610	610
30°	379	379	379	379	379	379	379	379	379
32.5°	190	190	190	190	190	190	190	190	190
35°	73	73	73	73	73	73	73	73	73
37.5°	35	35	35	35	35	35	35	35	35
40°	19	19	19	19	19	19	19	19	19
42.5°	10	10	10	10	10	10	10	10	10
45°	3	3	3	3	3	3	3	3	3
47.5°	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)