

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: E395772

Luminaire Tested: **H42-338**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395772
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: 300R40FL, 3650 LUMENS
Ballast/Driver: -

Summary

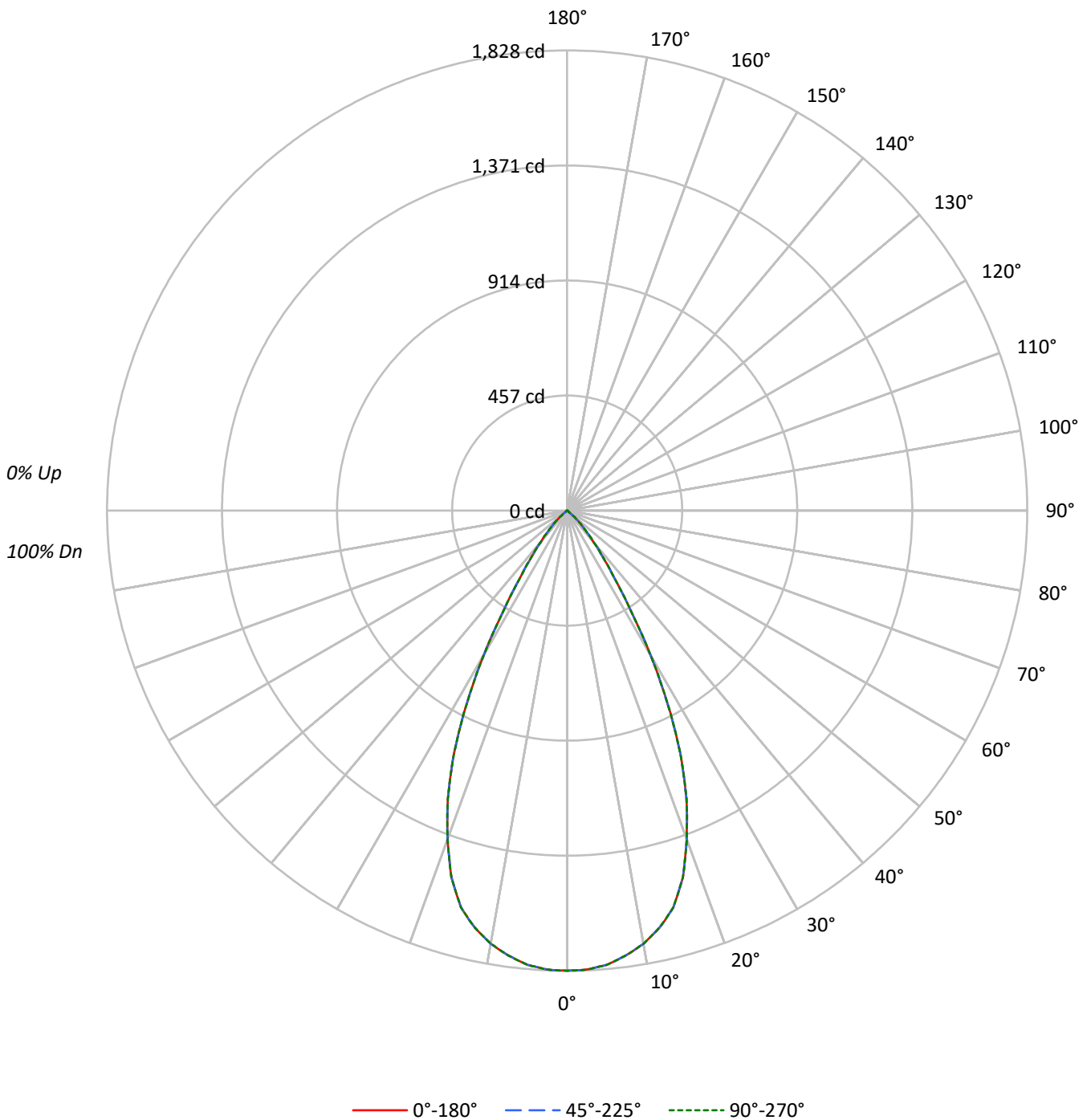
Lumens per Lamp: 3650 (1 lamp)
Luminaire Lumens: 1386.2 lumens
Efficiency: 38.0%
Efficacy: 4.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.8
Luminous Opening: (L: 0 ' x W: -0.6 ' x H: 0 '
CIE Type: Direct

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



TEST NUMBER: E395772
CATALOG NUMBER: H42-338

Luminous Intensity Polar Plot





TEST NUMBER: E395772
 CATALOG NUMBER: H42-338

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	45	45	45	45	44	44	44	44	42	42	42	40	40	40	39	39	39	38
1	43	42	41	41	42	41	41	40	40	39	39	38	38	38	37	37	36	36
2	41	40	38	37	40	39	38	36	38	37	36	37	36	35	35	35	34	34
3	39	37	35	34	39	37	35	34	36	34	33	35	33	33	34	33	32	31
4	37	35	33	31	37	34	33	31	34	32	31	33	31	30	32	31	30	30
5	36	33	31	29	35	32	30	29	32	30	29	31	30	29	31	29	28	28
6	34	31	29	27	34	31	29	27	30	28	27	30	28	27	29	28	27	26
7	33	29	27	26	32	29	27	25	29	27	25	28	26	25	28	26	25	25
8	31	28	26	24	31	27	25	24	27	25	24	27	25	24	26	25	24	23
9	30	26	24	23	29	26	24	23	26	24	23	25	24	23	25	24	22	22
10	28	25	23	21	28	25	23	21	24	23	21	24	23	21	24	22	21	21

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: E395772
 CATALOG NUMBER: H42-338

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	170.8	12.3	4.7
10°-20°	450.2	32.5	12.3
20°-30°	475.0	34.3	13.0
30°-40°	220.0	15.9	6.0
40°-50°	63.1	4.5	1.7
50°-60°	5.2	0.4	0.1
60°-70°	2.0	0.1	0.1
70°-80°	0.1	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°	1095.9	79.1	30.0
0°-40°	1315.9	94.9	36.1
0°-60°	1384.1	99.8	37.9
0°-90°	1386.2	100.0	38.0
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°	1386.2	100.0	38.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1828	1828	1828	1828	1828	
5°	1811	1811	1811	1811	1811	171
15°	1631	1631	1631	1631	1631	450
25°	1064	1064	1064	1064	1064	475
35°	326	326	326	326	326	220
45°	78	78	78	78	78	63
55°	3	3	3	3	3	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: E395772
 CATALOG NUMBER: H42-338

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1828	1828	1828	1828	1828	1828	1828	1828	1828
2.5°	1825	1825	1825	1825	1825	1825	1825	1825	1825
5°	1811	1811	1811	1811	1811	1811	1811	1811	1811
7.5°	1783	1783	1783	1783	1783	1783	1783	1783	1783
10°	1747	1747	1747	1747	1747	1747	1747	1747	1747
12.5°	1697	1697	1697	1697	1697	1697	1697	1697	1697
15°	1631	1631	1631	1631	1631	1631	1631	1631	1631
17.5°	1528	1528	1528	1528	1528	1528	1528	1528	1528
20°	1388	1388	1388	1388	1388	1388	1388	1388	1388
22.5°	1239	1239	1239	1239	1239	1239	1239	1239	1239
25°	1064	1064	1064	1064	1064	1064	1064	1064	1064
27.5°	864	864	864	864	864	864	864	864	864
30°	660	660	660	660	660	660	660	660	660
32.5°	468	468	468	468	468	468	468	468	468
35°	326	326	326	326	326	326	326	326	326
37.5°	232	232	232	232	232	232	232	232	232
40°	165	165	165	165	165	165	165	165	165
42.5°	116	116	116	116	116	116	116	116	116
45°	78	78	78	78	78	78	78	78	78
47.5°	47	47	47	47	47	47	47	47	47
50°	20	20	20	20	20	20	20	20	20
52.5°	6	6	6	6	6	6	6	6	6
55°	3	3	3	3	3	3	3	3	3
57.5°	3	3	3	3	3	3	3	3	3
60°	3	3	3	3	3	3	3	3	3
62.5°	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2
67.5°	2	2	2	2	2	2	2	2	2
70°	1	1	1	1	1	1	1	1	1
72.5°	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)