

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: E395778

Luminaire Tested: **H42-338**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395778
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: Q250PAR38SP, 3220 LUMENS
Ballast/Driver: -

Summary

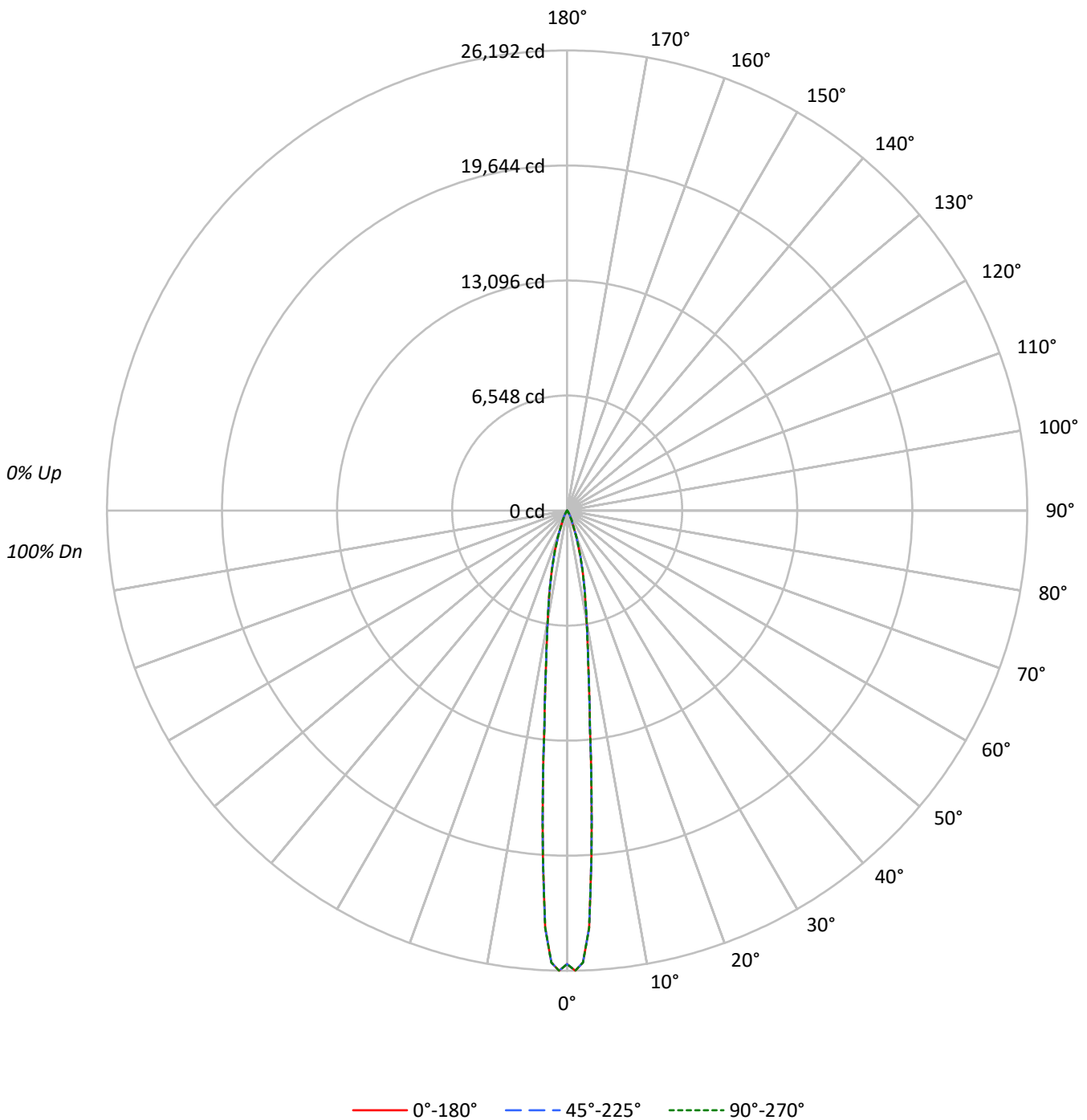
Lumens per Lamp: 3220 (1 lamp)
Luminaire Lumens: 2400.6 lumens
Efficiency: 74.6%
Efficacy: 9.6 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.24
Luminous Opening: (L: 0 ' x W: -0.6 ' x H: 0 '
CIE Type: Direct

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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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	89	89	89	89	87	87	87	87	83	83	83		79	79	79		76	76	76	75
1	86	85	83	82	84	83	82	81	80	79	78		77	77	76		75	74	74	73
2	84	81	79	78	82	80	78	77	78	76	75		76	75	74		74	73	72	71
3	81	78	76	74	80	77	75	74	76	74	72		74	73	71		72	71	70	69
4	79	76	73	71	78	75	73	71	74	72	70		72	71	69		71	70	69	68
5	77	74	71	69	77	73	71	69	72	70	68		71	69	68		70	68	67	66
6	76	72	69	67	75	71	69	67	70	68	66		69	67	66		69	67	66	65
7	74	70	67	65	73	69	67	65	69	66	65		68	66	65		67	66	64	64
8	72	68	66	64	72	68	65	64	67	65	63		67	65	63		66	64	63	62
9	71	67	64	62	70	66	64	62	66	64	62		65	63	62		65	63	62	61
10	70	65	63	61	69	65	63	61	65	62	61		64	62	61		64	62	61	60

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°	1192.5	49.7	37.0
10°-20°	894.7	37.3	27.8
20°-30°	272.8	11.4	8.5
30°-40°	38.1	1.6	1.2
40°-50°	2.4	0.1	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°	2360.0	98.3	73.3
0°-40°	2398.1	99.9	74.5
0°-60°	2400.6	100.0	74.6
0°-90°	2400.6	100.0	74.6
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°	2400.6	100.0	74.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25807	25807	25807	25807	25807	
5°	15861	15861	15861	15861	15861	1192
15°	3216	3216	3216	3216	3216	895
25°	565	565	565	565	565	273
35°	34	34	34	34	34	38
45°	2	2	2	2	2	2
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	25807	25807	25807	25807	25807	25807	25807	25807	25807
1°	26192	26192	26192	26192	26192	26192	26192	26192	26192
2°	25745	25745	25745	25745	25745	25745	25745	25745	25745
3°	23788	23788	23788	23788	23788	23788	23788	23788	23788
4°	19719	19719	19719	19719	19719	19719	19719	19719	19719
5°	15861	15861	15861	15861	15861	15861	15861	15861	15861
6°	12371	12371	12371	12371	12371	12371	12371	12371	12371
7°	10250	10250	10250	10250	10250	10250	10250	10250	10250
8°	8525	8525	8525	8525	8525	8525	8525	8525	8525
9°	7349	7349	7349	7349	7349	7349	7349	7349	7349
10°	6362	6362	6362	6362	6362	6362	6362	6362	6362
11°	5564	5564	5564	5564	5564	5564	5564	5564	5564
12°	4857	4857	4857	4857	4857	4857	4857	4857	4857
13°	4264	4264	4264	4264	4264	4264	4264	4264	4264
14°	3725	3725	3725	3725	3725	3725	3725	3725	3725
15°	3216	3216	3216	3216	3216	3216	3216	3216	3216
17.5°	2134	2134	2134	2134	2134	2134	2134	2134	2134
20°	1285	1285	1285	1285	1285	1285	1285	1285	1285
22.5°	777	777	777	777	777	777	777	777	777
25°	565	565	565	565	565	565	565	565	565
27.5°	383	383	383	383	383	383	383	383	383
30°	206	206	206	206	206	206	206	206	206
32.5°	101	101	101	101	101	101	101	101	101
35°	34	34	34	34	34	34	34	34	34
37.5°	15	15	15	15	15	15	15	15	15
40°	9	9	9	9	9	9	9	9	9
45°	2	2	2	2	2	2	2	2	2
50°	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)