

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: E395830

Luminaire Tested: **H600-1603BA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395830
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1603BA
Description: HALO RECESSED INC. BLACK BAFFLE, HIGH S.S.
Light Source: 150PAR38SP, 1740 LUMENS
Ballast/Driver: -

Summary

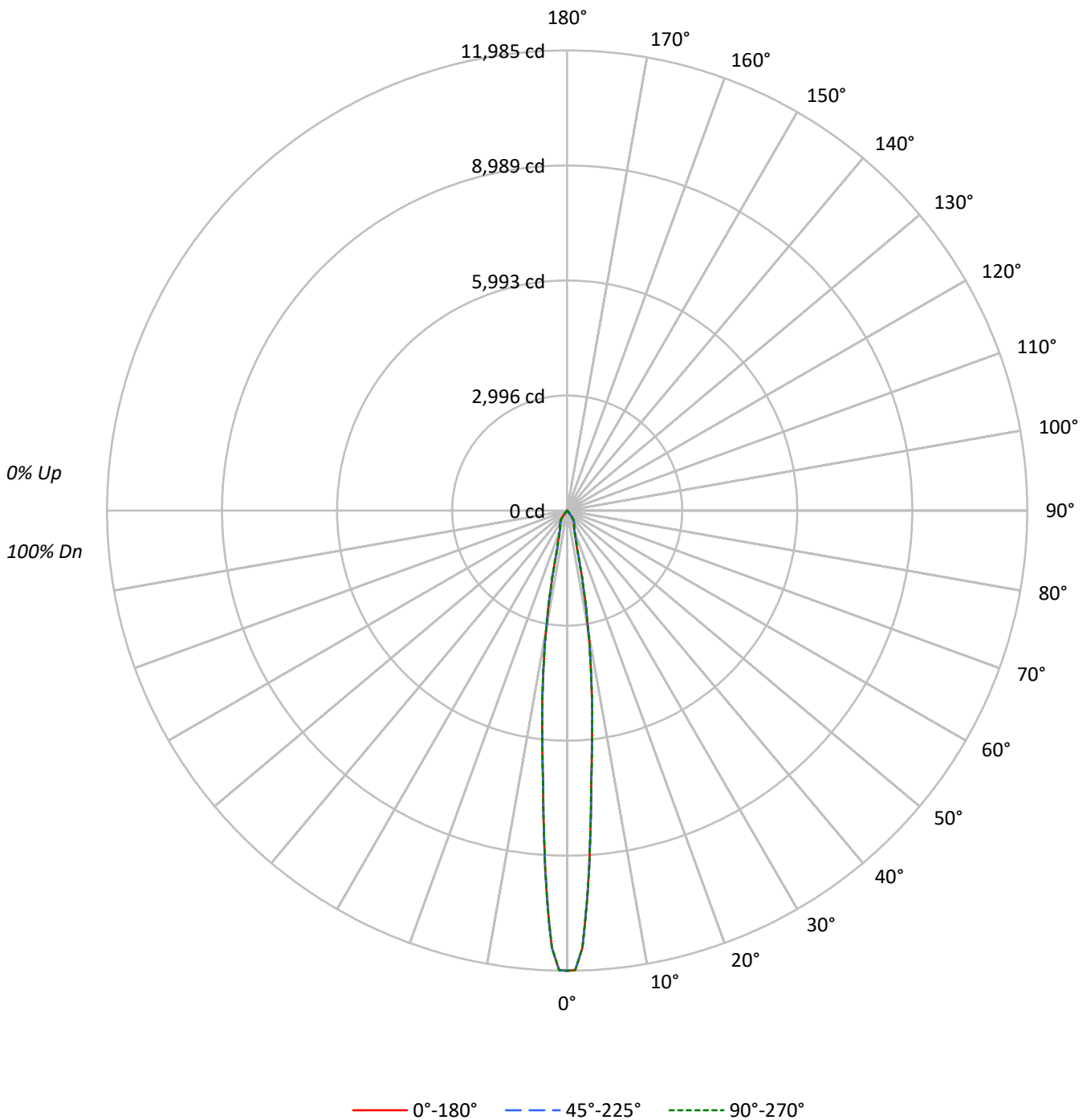
Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 1271.7 lumens
Efficiency: 73.1%
Efficacy: 8.5 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.21 / 0.25
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
Input Voltage (V): NR
Input Current (A_{in}): 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	87	87	87	87	85	85	85	85	81	81	81	78	78	78	75	75	75	73	73	73
1	84	82	81	80	82	81	80	79	78	77	76	75	75	74	73	72	72	71	71	71
2	81	79	76	74	80	77	75	74	75	73	72	73	72	71	71	70	69	68	68	68
3	79	75	72	70	77	74	72	70	72	70	69	71	69	68	69	68	67	66	66	66
4	76	72	69	67	75	71	69	66	70	68	66	68	67	65	67	66	64	63	63	63
5	74	69	66	64	73	69	66	64	68	65	63	66	64	63	65	64	62	61	61	61
6	72	67	64	62	71	66	64	61	65	63	61	65	62	61	64	62	60	59	59	59
7	70	65	62	59	69	64	61	59	64	61	59	63	60	59	62	60	59	58	58	58
8	68	63	60	58	67	62	60	58	62	59	57	61	59	57	61	58	57	56	56	56
9	66	61	58	56	65	61	58	56	60	58	56	60	57	56	59	57	55	55	55	55
10	64	59	56	54	64	59	56	54	59	56	54	58	56	54	58	56	54	53	53	53

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°	569.9	44.8	32.8
10°-20°	333.7	26.2	19.2
20°-30°	200.1	15.7	11.5
30°-40°	145.2	11.4	8.3
40°-50°	18.2	1.4	1.0
50°-60°	3.1	0.2	0.2
60°-70°	1.5	0.1	0.1
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°	1103.6	86.8	63.4
0°-40°	1248.8	98.2	71.8
0°-60°	1270.2	99.9	73.0
0°-90°	1271.7	100.0	73.1
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°	1271.7	100.0	73.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11985	11985	11985	11985	11985	
5°	7205	7205	7205	7205	7205	570
15°	978	978	978	978	978	334
25°	426	426	426	426	426	200
35°	268	268	268	268	268	145
45°	10	10	10	10	10	18
55°	3	3	3	3	3	3
65°	2	2	2	2	2	1
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°	11985	11985	11985	11985	11985	11985	11985	11985	11985
1°	11970	11970	11970	11970	11970	11970	11970	11970	11970
2°	11392	11392	11392	11392	11392	11392	11392	11392	11392
3°	10084	10084	10084	10084	10084	10084	10084	10084	10084
4°	8596	8596	8596	8596	8596	8596	8596	8596	8596
5°	7205	7205	7205	7205	7205	7205	7205	7205	7205
6°	6159	6159	6159	6159	6159	6159	6159	6159	6159
7°	5330	5330	5330	5330	5330	5330	5330	5330	5330
8°	4527	4527	4527	4527	4527	4527	4527	4527	4527
9°	3832	3832	3832	3832	3832	3832	3832	3832	3832
10°	3149	3149	3149	3149	3149	3149	3149	3149	3149
11°	2564	2564	2564	2564	2564	2564	2564	2564	2564
12°	2026	2026	2026	2026	2026	2026	2026	2026	2026
13°	1566	1566	1566	1566	1566	1566	1566	1566	1566
14°	1209	1209	1209	1209	1209	1209	1209	1209	1209
15°	978	978	978	978	978	978	978	978	978
17.5°	682	682	682	682	682	682	682	682	682
20°	557	557	557	557	557	557	557	557	557
22.5°	473	473	473	473	473	473	473	473	473
25°	426	426	426	426	426	426	426	426	426
27.5°	395	395	395	395	395	395	395	395	395
30°	356	356	356	356	356	356	356	356	356
32.5°	319	319	319	319	319	319	319	319	319
35°	268	268	268	268	268	268	268	268	268
37.5°	148	148	148	148	148	148	148	148	148
40°	71	71	71	71	71	71	71	71	71
45°	10	10	10	10	10	10	10	10	10
50°	6	6	6	6	6	6	6	6	6
55°	3	3	3	3	3	3	3	3	3
60°	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2
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)