

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: E395831

Luminaire Tested: **H600-1603BA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395831
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: 150PAR38FL, 1740 LUMENS
Ballast/Driver: -

Summary

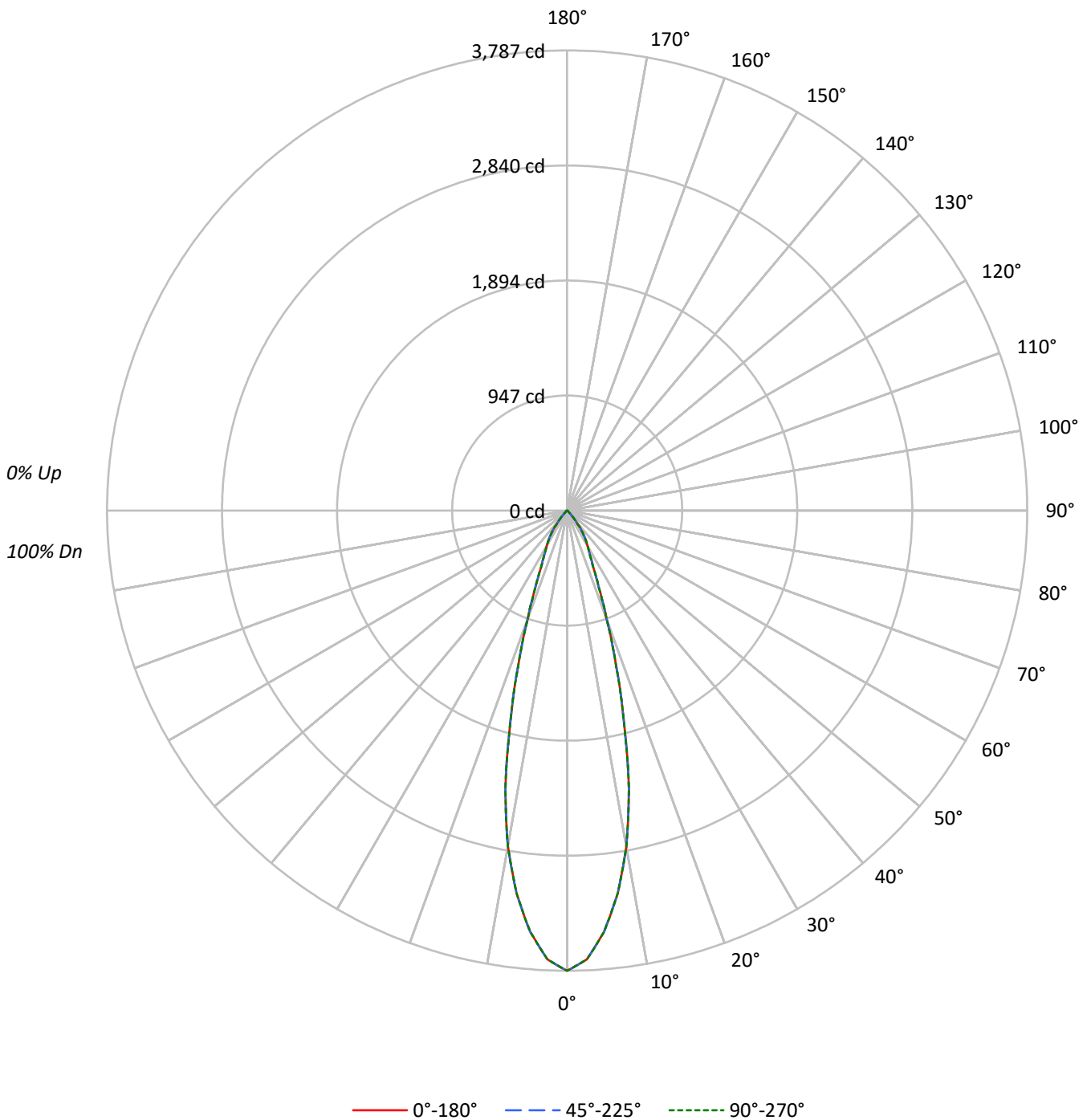
Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 1226.2 lumens
Efficiency: 70.5%
Efficacy: 8.2 lumens/watt
Spacing Criteria (0/90/45): 0.49 / 0.49 / 0.48
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
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	84	84	84	84	82	82	82	82	78	78	78		75	75	75		72	72	72	70
1	81	79	78	76	79	78	76	75	75	74	73		72	71	71		70	69	69	67
2	78	75	72	70	76	74	71	70	71	70	68		69	68	67		67	66	65	64
3	75	71	68	66	73	70	67	65	68	66	64		67	65	63		65	63	62	61
4	72	67	64	62	71	67	64	61	65	63	61		64	62	60		63	61	59	59
5	69	64	61	59	68	64	61	58	63	60	58		61	59	57		60	58	57	56
6	67	62	58	56	66	61	58	56	60	57	55		59	57	55		58	56	54	54
7	64	59	56	53	63	59	55	53	58	55	53		57	54	53		56	54	52	51
8	62	57	53	51	61	56	53	51	56	53	51		55	52	50		54	52	50	49
9	60	54	51	49	59	54	51	49	54	51	49		53	50	49		52	50	48	48
10	58	53	49	47	57	52	49	47	52	49	47		51	49	47		51	48	47	46

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°	310.9	25.4	17.9
10°-20°	494.8	40.4	28.4
20°-30°	248.3	20.3	14.3
30°-40°	135.0	11.0	7.8
40°-50°	28.9	2.4	1.7
50°-60°	6.1	0.5	0.4
60°-70°	2.1	0.2	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°	1054.0	86.0	60.6
0°-40°	1189.0	97.0	68.3
0°-60°	1224.0	99.8	70.3
0°-90°	1226.2	100.0	70.5
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°	1226.2	100.0	70.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3787	3787	3787	3787	3787	
5°	3480	3480	3480	3480	3480	311
15°	1809	1809	1809	1809	1809	495
25°	499	499	499	499	499	248
35°	223	223	223	223	223	135
45°	29	29	29	29	29	29
55°	7	7	7	7	7	6
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3787	3787	3787	3787	3787	3787	3787	3787	3787
2.5°	3698	3698	3698	3698	3698	3698	3698	3698	3698
5°	3480	3480	3480	3480	3480	3480	3480	3480	3480
7.5°	3179	3179	3179	3179	3179	3179	3179	3179	3179
10°	2807	2807	2807	2807	2807	2807	2807	2807	2807
12.5°	2347	2347	2347	2347	2347	2347	2347	2347	2347
15°	1809	1809	1809	1809	1809	1809	1809	1809	1809
17.5°	1339	1339	1339	1339	1339	1339	1339	1339	1339
20°	949	949	949	949	949	949	949	949	949
22.5°	674	674	674	674	674	674	674	674	674
25°	499	499	499	499	499	499	499	499	499
27.5°	399	399	399	399	399	399	399	399	399
30°	337	337	337	337	337	337	337	337	337
32.5°	283	283	283	283	283	283	283	283	283
35°	223	223	223	223	223	223	223	223	223
37.5°	156	156	156	156	156	156	156	156	156
40°	96	96	96	96	96	96	96	96	96
42.5°	54	54	54	54	54	54	54	54	54
45°	29	29	29	29	29	29	29	29	29
47.5°	17	17	17	17	17	17	17	17	17
50°	11	11	11	11	11	11	11	11	11
52.5°	8	8	8	8	8	8	8	8	8
55°	7	7	7	7	7	7	7	7	7
57.5°	5	5	5	5	5	5	5	5	5
60°	4	4	4	4	4	4	4	4	4
62.5°	3	3	3	3	3	3	3	3	3
65°	2	2	2	2	2	2	2	2	2
67.5°	1	1	1	1	1	1	1	1	1
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)