

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: E395823

Luminaire Tested: **H600-1603BA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395823
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 SOCKET
Light Source: 150R40SP, 1900 LUMENS
Ballast/Driver: -

Summary

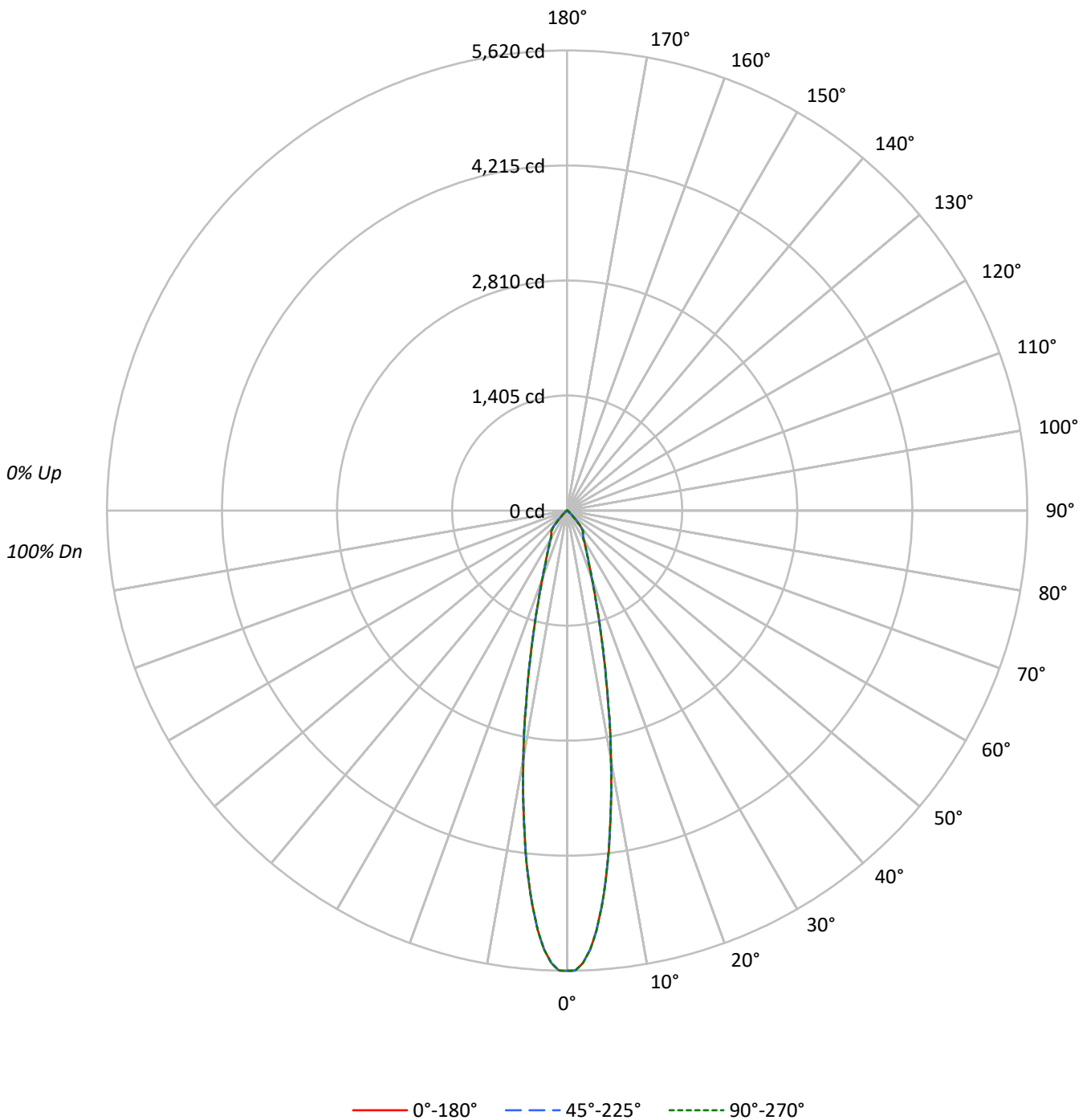
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1481.7 lumens
Efficiency: 78.0%
Efficacy: 9.9 lumens/watt
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.39
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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	93	93	93	93	91	91	91	91	87	87	87		83	83	83		80	80	80	78
1	89	87	85	84	87	85	84	82	82	81	80		79	78	77		77	76	75	74
2	85	82	79	77	84	80	78	76	78	76	74		76	74	73		74	72	71	70
3	82	77	74	71	80	76	73	70	74	71	69		72	70	68		70	69	67	66
4	78	73	69	66	77	72	69	66	70	67	65		69	66	64		68	65	64	63
5	75	69	65	62	74	69	65	62	67	64	62		66	63	61		65	62	60	59
6	72	66	62	59	71	65	62	59	64	61	58		63	60	58		62	60	58	57
7	69	63	59	56	68	62	59	56	62	58	56		61	58	55		60	57	55	54
8	67	60	56	54	66	60	56	53	59	56	53		58	55	53		58	55	53	52
9	64	58	54	51	64	57	54	51	57	53	51		56	53	51		56	53	51	50
10	62	56	52	49	61	55	52	49	55	51	49		54	51	49		54	51	49	48

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°	403.7	27.2	21.2
10°-20°	464.9	31.4	24.5
20°-30°	266.7	18.0	14.0
30°-40°	210.6	14.2	11.1
40°-50°	96.6	6.5	5.1
50°-60°	24.8	1.7	1.3
60°-70°	11.9	0.8	0.6
70°-80°	2.6	0.2	0.1
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°	1135.3	76.6	59.8
0°-40°	1345.9	90.8	70.8
0°-60°	1467.3	99.0	77.2
0°-90°	1481.7	100.0	78.0
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°	1481.7	100.0	78.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5620	5620	5620	5620	5620	
5°	4853	4853	4853	4853	4853	404
15°	1627	1627	1627	1627	1627	465
25°	565	565	565	565	565	267
35°	337	337	337	337	337	211
45°	101	101	101	101	101	97
55°	27	27	27	27	27	25
65°	12	12	12	12	12	12
75°	2	2	2	2	2	3
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°	5620	5620	5620	5620	5620	5620	5620	5620	5620
1°	5618	5618	5618	5618	5618	5618	5618	5618	5618
2°	5529	5529	5529	5529	5529	5529	5529	5529	5529
3°	5369	5369	5369	5369	5369	5369	5369	5369	5369
4°	5136	5136	5136	5136	5136	5136	5136	5136	5136
5°	4853	4853	4853	4853	4853	4853	4853	4853	4853
6°	4528	4528	4528	4528	4528	4528	4528	4528	4528
7°	4174	4174	4174	4174	4174	4174	4174	4174	4174
8°	3805	3805	3805	3805	3805	3805	3805	3805	3805
9°	3444	3444	3444	3444	3444	3444	3444	3444	3444
10°	3076	3076	3076	3076	3076	3076	3076	3076	3076
11°	2754	2754	2754	2754	2754	2754	2754	2754	2754
12°	2414	2414	2414	2414	2414	2414	2414	2414	2414
13°	2120	2120	2120	2120	2120	2120	2120	2120	2120
14°	1864	1864	1864	1864	1864	1864	1864	1864	1864
15°	1627	1627	1627	1627	1627	1627	1627	1627	1627
17.5°	1172	1172	1172	1172	1172	1172	1172	1172	1172
20°	872	872	872	872	872	872	872	872	872
22.5°	687	687	687	687	687	687	687	687	687
25°	565	565	565	565	565	565	565	565	565
27.5°	470	470	470	470	470	470	470	470	470
30°	400	400	400	400	400	400	400	400	400
32.5°	363	363	363	363	363	363	363	363	363
35°	337	337	337	337	337	337	337	337	337
37.5°	316	316	316	316	316	316	316	316	316
40°	268	268	268	268	268	268	268	268	268
45°	101	101	101	101	101	101	101	101	101
50°	39	39	39	39	39	39	39	39	39
55°	27	27	27	27	27	27	27	27	27
60°	18	18	18	18	18	18	18	18	18
65°	12	12	12	12	12	12	12	12	12
70°	6	6	6	6	6	6	6	6	6
75°	2	2	2	2	2	2	2	2	2
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)