

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: E395822

Luminaire Tested: **H600-1603BA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395822
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: 150R40FL, 1900 LUMENS
Ballast/Driver: -

Summary

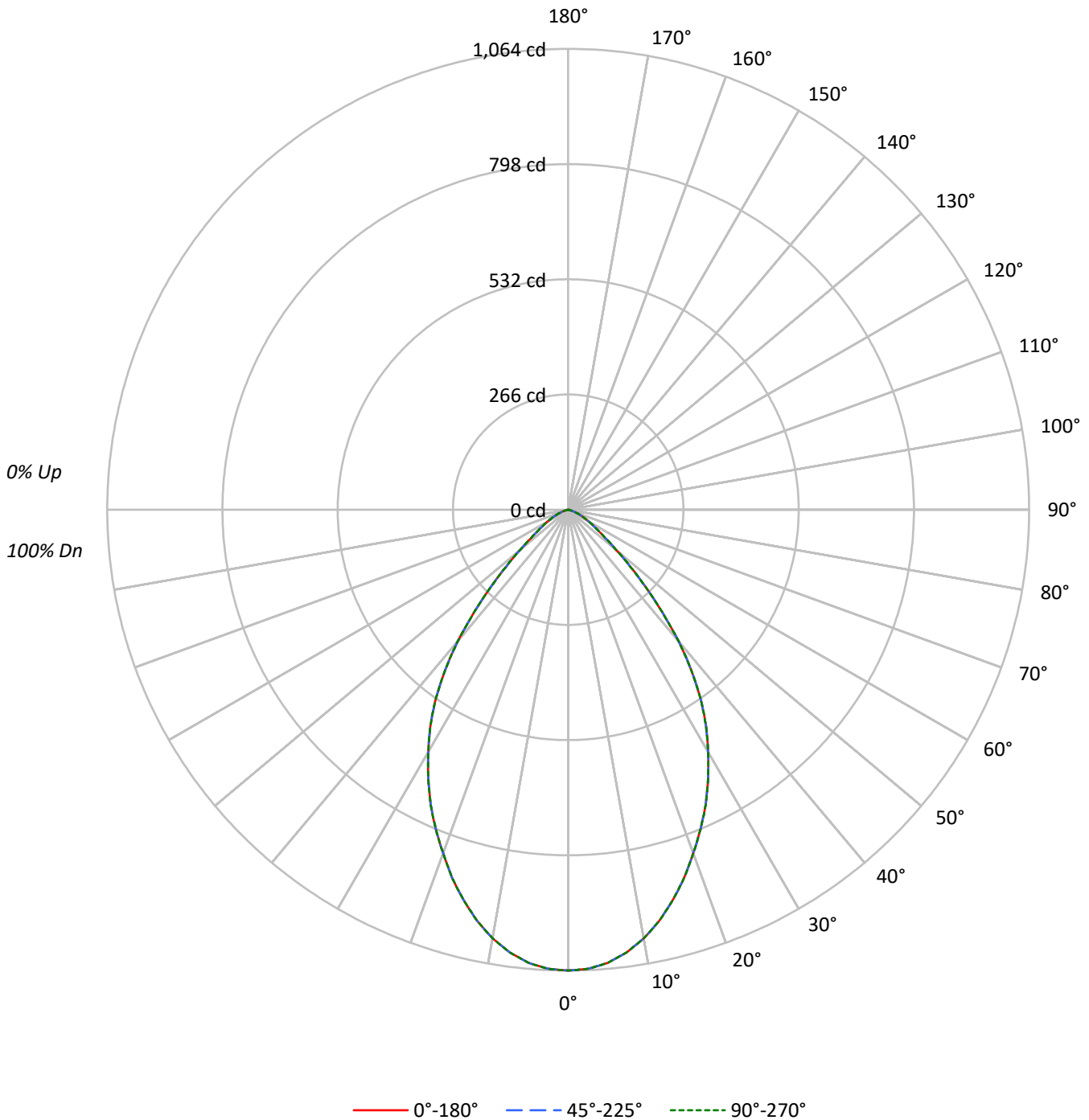
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1354.9 lumens
Efficiency: 71.3%
Efficacy: 9.0 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 0.97 / 1.03
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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	85	85	85	85	83	83	83	83	79	79	79		76	76	76		73	73	73	71
1	80	78	76	74	78	76	74	73	73	72	71		71	70	68		68	67	66	65
2	75	71	68	65	74	70	67	64	68	65	63		65	63	61		63	62	60	59
3	71	65	61	58	69	64	60	57	62	59	56		60	58	55		59	56	54	53
4	66	60	55	52	65	59	55	51	57	54	51		56	53	50		54	52	49	48
5	62	55	50	47	61	54	50	46	53	49	46		52	48	45		51	47	45	44
6	58	51	46	42	57	50	46	42	49	45	42		48	44	42		47	44	41	40
7	55	47	42	39	54	47	42	39	46	41	38		45	41	38		44	40	38	37
8	52	44	39	36	51	43	39	35	43	38	35		42	38	35		41	38	35	34
9	49	41	36	33	48	40	36	33	40	36	33		39	35	32		38	35	32	31
10	46	38	34	30	45	38	33	30	37	33	30		37	33	30		36	33	30	29

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°	98.8	7.3	5.2
10°-20°	261.3	19.3	13.8
20°-30°	343.7	25.4	18.1
30°-40°	328.7	24.3	17.3
40°-50°	198.5	14.6	10.4
50°-60°	80.9	6.0	4.3
60°-70°	34.6	2.6	1.8
70°-80°	8.3	0.6	0.4
80°-90°	0.1	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°	703.8	51.9	37.0
0°-40°	1032.5	76.2	54.3
0°-60°	1311.9	96.8	69.0
0°-90°	1354.9	100.0	71.3
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°	1354.9	100.0	71.3

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1064	1064	1064	1064	1064	
5°	1050	1050	1050	1050	1050	99
15°	933	933	933	933	933	261
25°	751	751	751	751	751	344
35°	533	533	533	533	533	329
45°	253	253	253	253	253	198
55°	86	86	86	86	86	81
65°	34	34	34	34	34	35
75°	7	7	7	7	7	8
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°	1064	1064	1064	1064	1064	1064	1064	1064	1064
2.5°	1061	1061	1061	1061	1061	1061	1061	1061	1061
5°	1050	1050	1050	1050	1050	1050	1050	1050	1050
7.5°	1031	1031	1031	1031	1031	1031	1031	1031	1031
10°	1005	1005	1005	1005	1005	1005	1005	1005	1005
12.5°	972	972	972	972	972	972	972	972	972
15°	933	933	933	933	933	933	933	933	933
17.5°	891	891	891	891	891	891	891	891	891
20°	844	844	844	844	844	844	844	844	844
22.5°	798	798	798	798	798	798	798	798	798
25°	751	751	751	751	751	751	751	751	751
27.5°	699	699	699	699	699	699	699	699	699
30°	646	646	646	646	646	646	646	646	646
32.5°	592	592	592	592	592	592	592	592	592
35°	533	533	533	533	533	533	533	533	533
37.5°	466	466	466	466	466	466	466	466	466
40°	397	397	397	397	397	397	397	397	397
42.5°	321	321	321	321	321	321	321	321	321
45°	253	253	253	253	253	253	253	253	253
47.5°	194	194	194	194	194	194	194	194	194
50°	145	145	145	145	145	145	145	145	145
52.5°	110	110	110	110	110	110	110	110	110
55°	86	86	86	86	86	86	86	86	86
57.5°	68	68	68	68	68	68	68	68	68
60°	55	55	55	55	55	55	55	55	55
62.5°	44	44	44	44	44	44	44	44	44
65°	34	34	34	34	34	34	34	34	34
67.5°	26	26	26	26	26	26	26	26	26
70°	18	18	18	18	18	18	18	18	18
72.5°	12	12	12	12	12	12	12	12	12
75°	7	7	7	7	7	7	7	7	7
77.5°	3	3	3	3	3	3	3	3	3
80°	1	1	1	1	1	1	1	1	1
82.5°	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)