

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: E395861

Luminaire Tested: **H600-1636C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395861
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1636C
Description: HALO RECESSED INC. CLEAR CONE, 0 DEG. TILT
Light Source: 100R30FL, 1200 LUMENS
Ballast/Driver: -

Summary

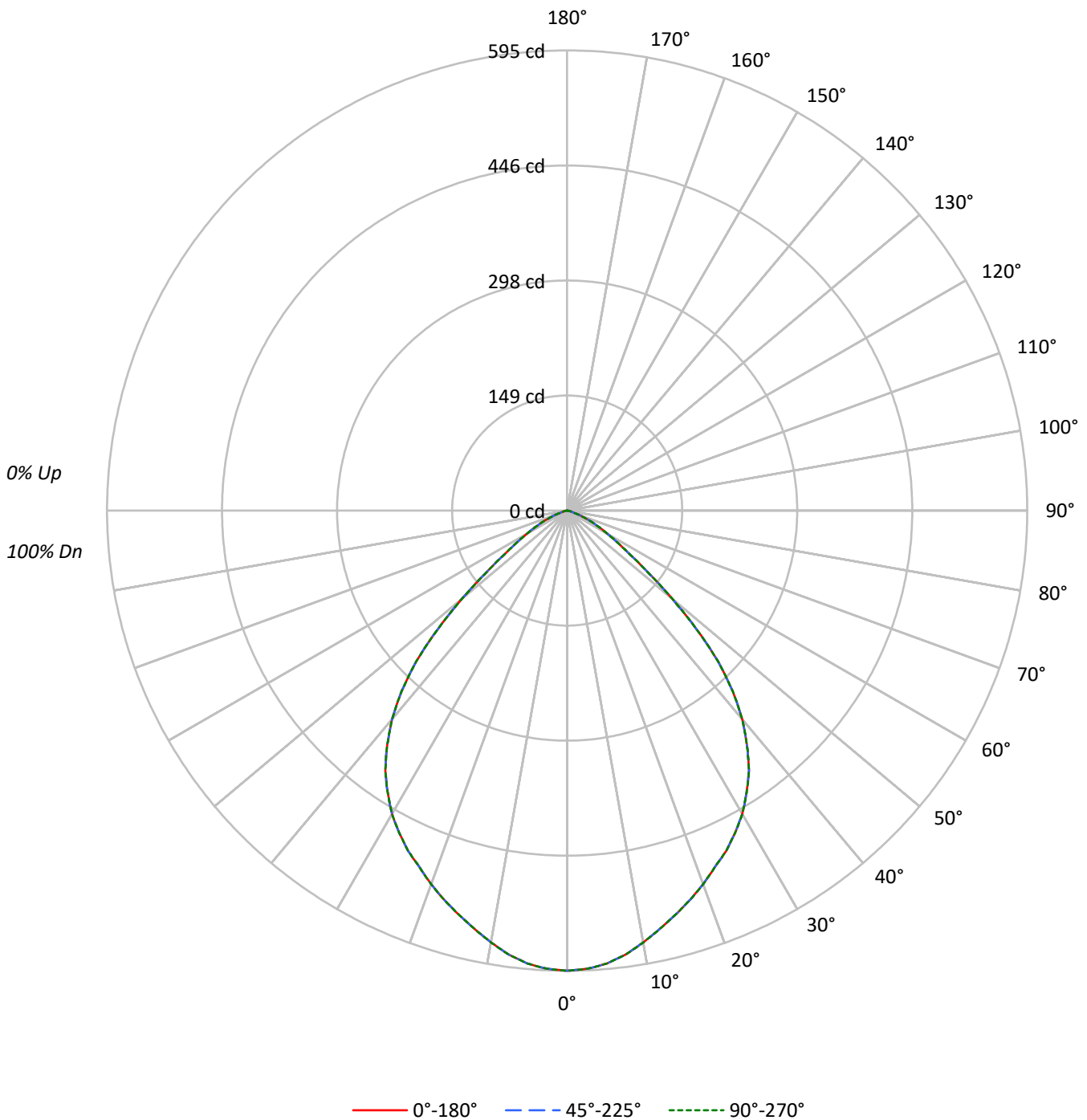
Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 1032.3 lumens
Efficiency: 86.0%
Efficacy: 10.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.22
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 100
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	102	102	102	102	100	100	100	100	96	96	96		92	92	92		88	88	88	86
1	96	93	91	88	94	91	89	87	88	86	84		85	83	82		82	80	79	78
2	90	84	80	76	88	83	79	75	80	77	74		77	74	72		75	73	70	69
3	83	76	71	66	82	75	70	66	73	68	65		70	67	64		68	65	63	61
4	78	69	63	59	76	68	63	58	66	61	57		64	60	57		63	59	56	54
5	72	63	57	52	71	62	56	52	61	55	51		59	54	51		58	54	50	49
6	67	58	51	47	66	57	51	46	56	50	46		54	49	46		53	49	45	44
7	63	53	47	42	62	52	46	42	51	46	42		50	45	41		49	44	41	40
8	59	49	42	38	58	48	42	38	47	42	38		46	41	38		45	41	37	36
9	55	45	39	35	54	45	39	35	44	38	35		43	38	34		42	38	34	33
10	52	42	36	32	51	42	36	32	41	35	32		40	35	32		39	35	31	30

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°	55.4	5.4	4.6
10°-20°	152.6	14.8	12.7
20°-30°	223.5	21.7	18.6
30°-40°	254.2	24.6	21.2
40°-50°	208.1	20.2	17.3
50°-60°	94.9	9.2	7.9
60°-70°	35.7	3.5	3.0
70°-80°	7.4	0.7	0.6
80°-90°	0.5	0.1	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°	431.5	41.8	36.0
0°-40°	685.7	66.4	57.1
0°-60°	988.7	95.8	82.4
0°-90°	1032.3	100.0	86.0
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°	1032.3	100.0	86.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	595	595	595	595	595	
5°	588	588	588	588	588	55
15°	541	541	541	541	541	153
25°	486	486	486	486	486	224
35°	410	410	410	410	410	254
45°	276	276	276	276	276	208
55°	99	99	99	99	99	95
65°	35	35	35	35	35	36
75°	6	6	6	6	6	7
85°	0	0	0	0	0	1
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°	595	595	595	595	595	595	595	595	595
2.5°	593	593	593	593	593	593	593	593	593
5°	588	588	588	588	588	588	588	588	588
7.5°	579	579	579	579	579	579	579	579	579
10°	567	567	567	567	567	567	567	567	567
12.5°	554	554	554	554	554	554	554	554	554
15°	541	541	541	541	541	541	541	541	541
17.5°	528	528	528	528	528	528	528	528	528
20°	514	514	514	514	514	514	514	514	514
22.5°	499	499	499	499	499	499	499	499	499
25°	486	486	486	486	486	486	486	486	486
27.5°	470	470	470	470	470	470	470	470	470
30°	453	453	453	453	453	453	453	453	453
32.5°	432	432	432	432	432	432	432	432	432
35°	410	410	410	410	410	410	410	410	410
37.5°	382	382	382	382	382	382	382	382	382
40°	352	352	352	352	352	352	352	352	352
42.5°	317	317	317	317	317	317	317	317	317
45°	276	276	276	276	276	276	276	276	276
47.5°	227	227	227	227	227	227	227	227	227
50°	177	177	177	177	177	177	177	177	177
52.5°	133	133	133	133	133	133	133	133	133
55°	99	99	99	99	99	99	99	99	99
57.5°	77	77	77	77	77	77	77	77	77
60°	60	60	60	60	60	60	60	60	60
62.5°	47	47	47	47	47	47	47	47	47
65°	35	35	35	35	35	35	35	35	35
67.5°	25	25	25	25	25	25	25	25	25
70°	16	16	16	16	16	16	16	16	16
72.5°	9	9	9	9	9	9	9	9	9
75°	6	6	6	6	6	6	6	6	6
77.5°	4	4	4	4	4	4	4	4	4
80°	2	2	2	2	2	2	2	2	2
82.5°	1	1	1	1	1	1	1	1	1
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)