

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: E395857

Luminaire Tested: **H600-1636C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395857
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: 75R30FL, 900 LUMENS
Ballast/Driver: -

Summary

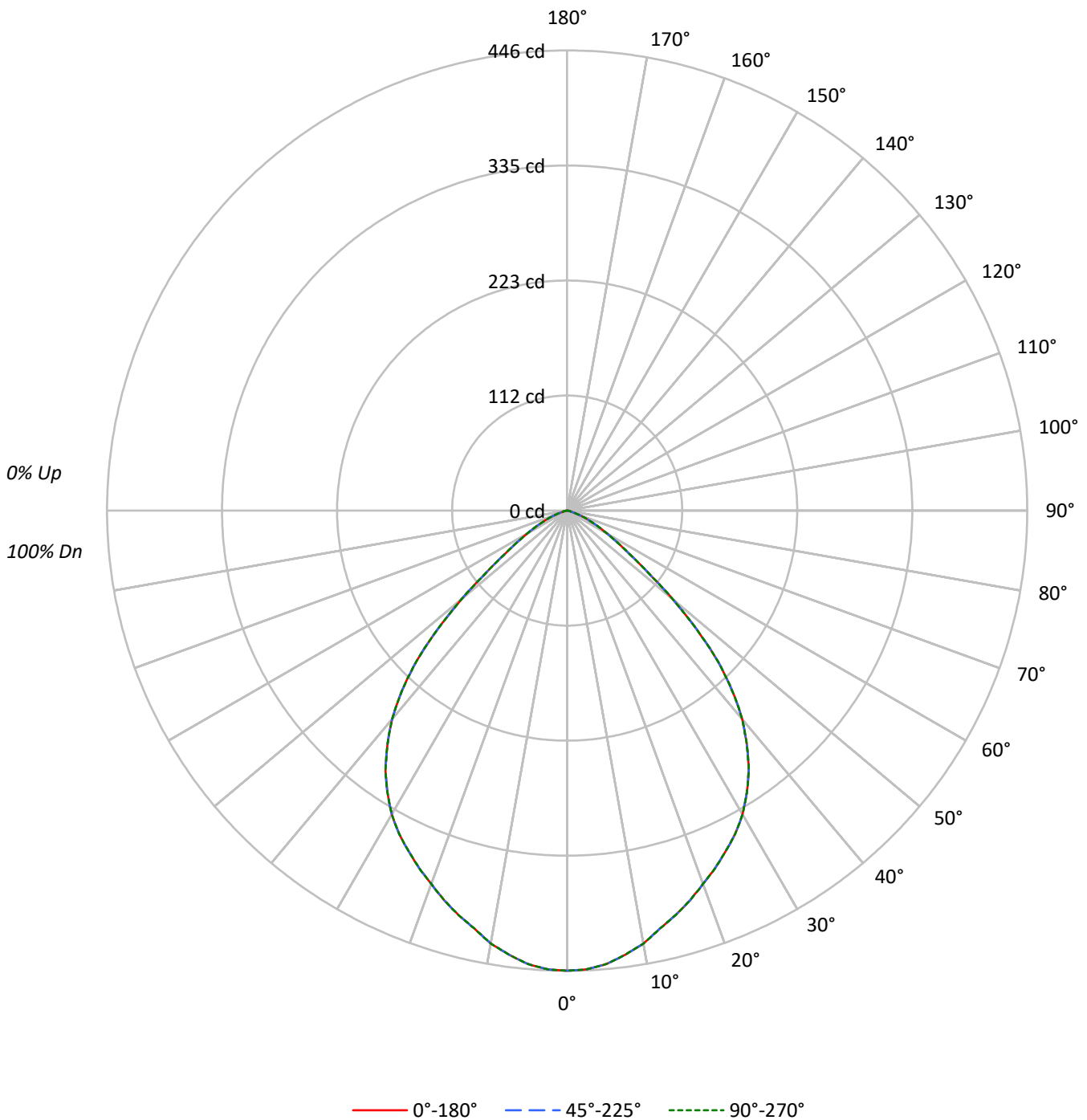
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 774.0 lumens
Efficiency: 86.0%
Efficacy: 10.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.22
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
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	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		91	91	91		88	88	88	86
1	96	93	91	88	94	91	89	87	88	86	84		85	83	81		82	80	79	77
2	90	84	80	76	88	83	79	75	80	77	74		77	74	72		75	72	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	34		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°	41.6	5.4	4.6
10°-20°	114.4	14.8	12.7
20°-30°	167.7	21.7	18.6
30°-40°	190.5	24.6	21.2
40°-50°	155.9	20.1	17.3
50°-60°	71.0	9.2	7.9
60°-70°	26.7	3.5	3.0
70°-80°	5.5	0.7	0.6
80°-90°	0.5	0.1	0.1
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°	323.7	41.8	36.0
0°-40°	514.2	66.4	57.1
0°-60°	741.2	95.8	82.4
0°-90°	774.0	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°	774.0	100.0	86.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	446	446	446	446	446	
5°	441	441	441	441	441	42
15°	406	406	406	406	406	114
25°	364	364	364	364	364	168
35°	307	307	307	307	307	191
45°	207	207	207	207	207	156
55°	74	74	74	74	74	71
65°	26	26	26	26	26	27
75°	4	4	4	4	4	6
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°	446	446	446	446	446	446	446	446	446
2.5°	445	445	445	445	445	445	445	445	445
5°	441	441	441	441	441	441	441	441	441
7.5°	434	434	434	434	434	434	434	434	434
10°	426	426	426	426	426	426	426	426	426
12.5°	415	415	415	415	415	415	415	415	415
15°	406	406	406	406	406	406	406	406	406
17.5°	396	396	396	396	396	396	396	396	396
20°	385	385	385	385	385	385	385	385	385
22.5°	375	375	375	375	375	375	375	375	375
25°	364	364	364	364	364	364	364	364	364
27.5°	353	353	353	353	353	353	353	353	353
30°	340	340	340	340	340	340	340	340	340
32.5°	324	324	324	324	324	324	324	324	324
35°	307	307	307	307	307	307	307	307	307
37.5°	286	286	286	286	286	286	286	286	286
40°	264	264	264	264	264	264	264	264	264
42.5°	237	237	237	237	237	237	237	237	237
45°	207	207	207	207	207	207	207	207	207
47.5°	170	170	170	170	170	170	170	170	170
50°	133	133	133	133	133	133	133	133	133
52.5°	99	99	99	99	99	99	99	99	99
55°	74	74	74	74	74	74	74	74	74
57.5°	58	58	58	58	58	58	58	58	58
60°	45	45	45	45	45	45	45	45	45
62.5°	35	35	35	35	35	35	35	35	35
65°	26	26	26	26	26	26	26	26	26
67.5°	19	19	19	19	19	19	19	19	19
70°	12	12	12	12	12	12	12	12	12
72.5°	7	7	7	7	7	7	7	7	7
75°	4	4	4	4	4	4	4	4	4
77.5°	3	3	3	3	3	3	3	3	3
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)