

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: E395832

Luminaire Tested: **H600-1603C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395832
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1603C
Description: HALO RECESSED INC. CLEAR CONE, HIGH S.S.
Light Source: 150PAR38FL, 1740 LUMENS
Ballast/Driver: -

Summary

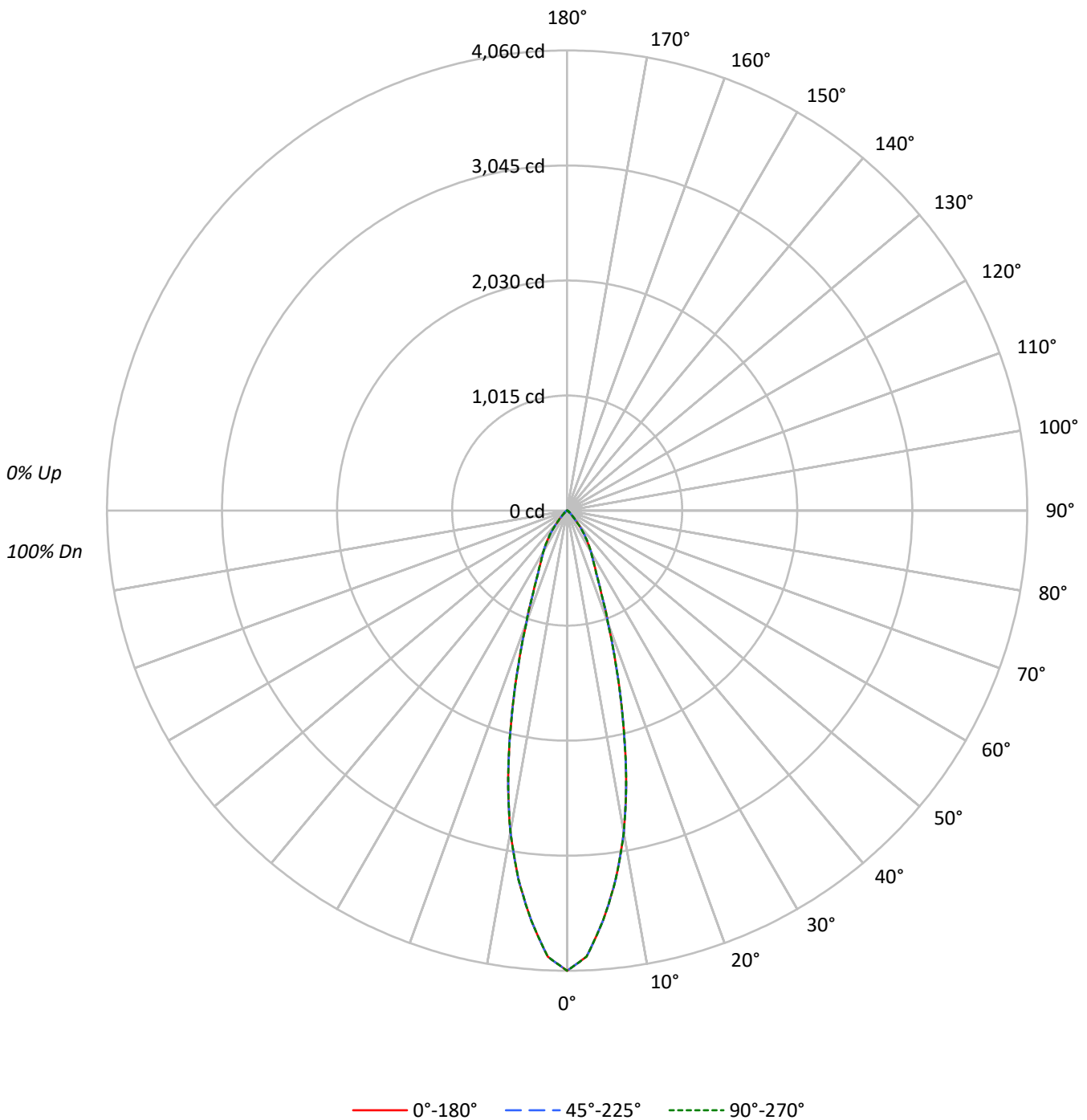
Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 1386.2 lumens
Efficiency: 79.7%
Efficacy: 9.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.49
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
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	95	95	95	95	93	93	93	93	89	89	89		85	85	85		81	81	81	80
1	91	89	87	86	89	87	86	84	84	83	82		81	80	79		78	78	77	76
2	87	84	81	79	85	82	80	78	80	78	76		78	76	74		75	74	73	72
3	84	79	76	73	82	78	75	72	76	73	71		74	72	70		72	71	69	68
4	80	75	71	68	79	74	71	68	72	69	67		71	68	66		70	67	66	65
5	77	71	67	64	76	71	67	64	69	66	64		68	65	63		67	64	62	61
6	74	68	64	61	73	67	64	61	66	63	60		65	62	60		64	62	60	59
7	71	65	61	58	70	64	61	58	63	60	58		63	60	57		62	59	57	56
8	69	62	58	55	68	62	58	55	61	57	55		60	57	55		59	57	55	54
9	66	60	56	53	65	59	55	53	59	55	53		58	55	53		57	54	52	51
10	64	57	53	51	63	57	53	51	56	53	51		56	53	50		55	52	50	49

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°	323.5	23.3	18.6
10°-20°	518.1	37.4	29.8
20°-30°	293.9	21.2	16.9
30°-40°	169.1	12.2	9.7
40°-50°	51.2	3.7	2.9
50°-60°	19.8	1.4	1.1
60°-70°	8.4	0.6	0.5
70°-80°	2.1	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°	1135.5	81.9	65.3
0°-40°	1304.6	94.1	75.0
0°-60°	1375.7	99.2	79.1
0°-90°	1386.2	100.0	79.7
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°	1386.2	100.0	79.7

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4060	4060	4060	4060	4060	
5°	3632	3632	3632	3632	3632	324
15°	1896	1896	1896	1896	1896	518
25°	603	603	603	603	603	294
35°	273	273	273	273	273	169
45°	58	58	58	58	58	51
55°	22	22	22	22	22	20
65°	8	8	8	8	8	8
75°	2	2	2	2	2	2
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°	4060	4060	4060	4060	4060	4060	4060	4060	4060
2.5°	3939	3939	3939	3939	3939	3939	3939	3939	3939
5°	3632	3632	3632	3632	3632	3632	3632	3632	3632
7.5°	3283	3283	3283	3283	3283	3283	3283	3283	3283
10°	2882	2882	2882	2882	2882	2882	2882	2882	2882
12.5°	2404	2404	2404	2404	2404	2404	2404	2404	2404
15°	1896	1896	1896	1896	1896	1896	1896	1896	1896
17.5°	1427	1427	1427	1427	1427	1427	1427	1427	1427
20°	1052	1052	1052	1052	1052	1052	1052	1052	1052
22.5°	779	779	779	779	779	779	779	779	779
25°	603	603	603	603	603	603	603	603	603
27.5°	494	494	494	494	494	494	494	494	494
30°	418	418	418	418	418	418	418	418	418
32.5°	346	346	346	346	346	346	346	346	346
35°	273	273	273	273	273	273	273	273	273
37.5°	203	203	203	203	203	203	203	203	203
40°	136	136	136	136	136	136	136	136	136
42.5°	86	86	86	86	86	86	86	86	86
45°	58	58	58	58	58	58	58	58	58
47.5°	42	42	42	42	42	42	42	42	42
50°	32	32	32	32	32	32	32	32	32
52.5°	26	26	26	26	26	26	26	26	26
55°	22	22	22	22	22	22	22	22	22
57.5°	18	18	18	18	18	18	18	18	18
60°	14	14	14	14	14	14	14	14	14
62.5°	11	11	11	11	11	11	11	11	11
65°	8	8	8	8	8	8	8	8	8
67.5°	6	6	6	6	6	6	6	6	6
70°	4	4	4	4	4	4	4	4	4
72.5°	3	3	3	3	3	3	3	3	3
75°	2	2	2	2	2	2	2	2	2
77.5°	1	1	1	1	1	1	1	1	1
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)