

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: E395849

Luminaire Tested: **H600-1636C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395849
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: 150R40FL, 1900 LUMENS
Ballast/Driver: -

Summary

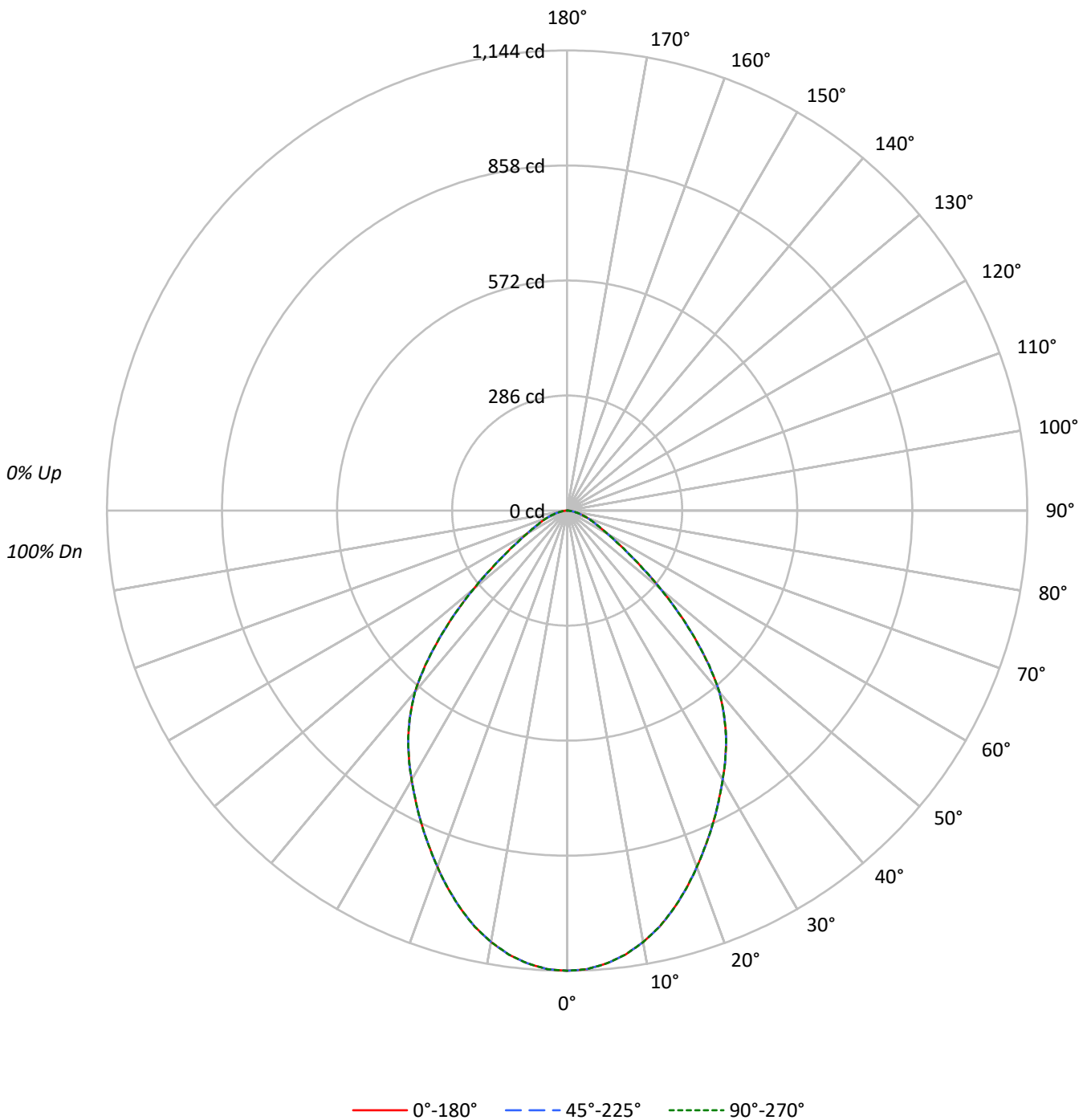
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1857.4 lumens
Efficiency: 97.8%
Efficacy: 12.4 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.15
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	116	116	116	116	114	114	114	114	109	109	109	104	104	104	100	100	100	98			
1	109	105	102	99	106	103	100	98	99	97	95	96	94	92	92	91	89	87			
2	101	95	90	86	99	93	89	85	90	86	83	87	84	81	84	82	79	77			
3	94	86	80	75	92	85	79	74	82	77	73	79	75	71	77	73	70	68			
4	88	78	71	66	86	77	70	65	75	69	64	72	68	64	70	66	63	61			
5	82	71	64	58	80	70	63	58	68	62	58	66	61	57	65	60	56	55			
6	76	65	58	52	75	64	57	52	63	56	52	61	56	51	60	55	51	49			
7	71	60	53	47	70	59	52	47	58	51	47	56	51	47	55	50	46	45			
8	67	55	48	43	66	55	48	43	53	47	43	52	47	42	51	46	42	41			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37			
10	59	48	41	36	58	47	41	36	46	40	36	45	40	36	45	39	36	34			

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°	106.6	5.7	5.6
10°-20°	287.4	15.5	15.1
20°-30°	394.7	21.3	20.8
30°-40°	428.5	23.1	22.6
40°-50°	344.3	18.5	18.1
50°-60°	173.4	9.3	9.1
60°-70°	79.3	4.3	4.2
70°-80°	36.0	1.9	1.9
80°-90°	7.2	0.4	0.4
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°	788.7	42.5	41.5
0°-40°	1217.2	65.5	64.1
0°-60°	1734.9	93.4	91.3
0°-90°	1857.4	100.0	97.8
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°	1857.4	100.0	97.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1144	1144	1144	1144	1144	
5°	1130	1130	1130	1130	1130	107
15°	1024	1024	1024	1024	1024	287
25°	858	858	858	858	858	395
35°	689	689	689	689	689	429
45°	449	449	449	449	449	344
55°	186	186	186	186	186	173
65°	77	77	77	77	77	79
75°	33	33	33	33	33	36
85°	6	6	6	6	6	7
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°	1144	1144	1144	1144	1144	1144	1144	1144	1144
2.5°	1141	1141	1141	1141	1141	1141	1141	1141	1141
5°	1130	1130	1130	1130	1130	1130	1130	1130	1130
7.5°	1113	1113	1113	1113	1113	1113	1113	1113	1113
10°	1089	1089	1089	1089	1089	1089	1089	1089	1089
12.5°	1060	1060	1060	1060	1060	1060	1060	1060	1060
15°	1024	1024	1024	1024	1024	1024	1024	1024	1024
17.5°	985	985	985	985	985	985	985	985	985
20°	943	943	943	943	943	943	943	943	943
22.5°	900	900	900	900	900	900	900	900	900
25°	858	858	858	858	858	858	858	858	858
27.5°	815	815	815	815	815	815	815	815	815
30°	773	773	773	773	773	773	773	773	773
32.5°	732	732	732	732	732	732	732	732	732
35°	689	689	689	689	689	689	689	689	689
37.5°	641	641	641	641	641	641	641	641	641
40°	589	589	589	589	589	589	589	589	589
42.5°	522	522	522	522	522	522	522	522	522
45°	449	449	449	449	449	449	449	449	449
47.5°	376	376	376	376	376	376	376	376	376
50°	305	305	305	305	305	305	305	305	305
52.5°	239	239	239	239	239	239	239	239	239
55°	186	186	186	186	186	186	186	186	186
57.5°	145	145	145	145	145	145	145	145	145
60°	116	116	116	116	116	116	116	116	116
62.5°	94	94	94	94	94	94	94	94	94
65°	77	77	77	77	77	77	77	77	77
67.5°	65	65	65	65	65	65	65	65	65
70°	54	54	54	54	54	54	54	54	54
72.5°	43	43	43	43	43	43	43	43	43
75°	33	33	33	33	33	33	33	33	33
77.5°	25	25	25	25	25	25	25	25	25
80°	17	17	17	17	17	17	17	17	17
82.5°	10	10	10	10	10	10	10	10	10
85°	6	6	6	6	6	6	6	6	6
87.5°	2	2	2	2	2	2	2	2	2
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)