

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: E395886

Luminaire Tested: **H600-1603P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395886
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1603P
Description: HALO RECESSED INC. PAINTED CONE, HIGH S.S.
Light Source: 150R40FL, 1900 LUMENS
Ballast/Driver: -

Summary

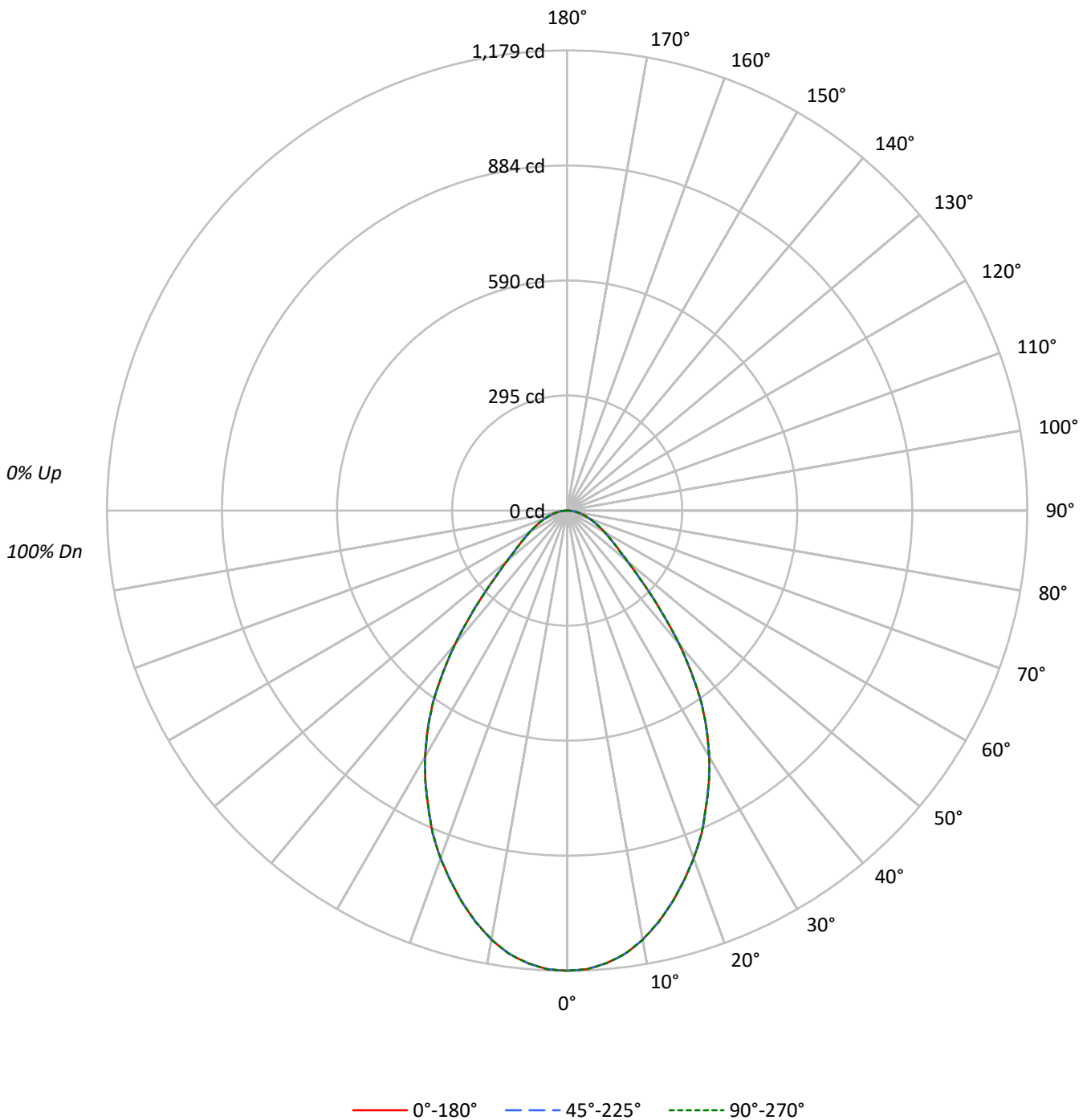
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1670.2 lumens
Efficiency: 87.9%
Efficacy: 11.1 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 1.04
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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	105	105	105	105	102	102	102	102	98	98	98		94	94	94		90	90	90	88
1	98	95	92	89	96	93	90	88	89	87	85		86	84	82		83	81	80	78
2	91	86	81	77	89	84	80	76	81	77	74		78	75	73		76	73	71	69
3	85	78	72	67	83	76	71	67	74	69	66		72	68	65		69	66	64	62
4	79	71	64	60	77	70	64	59	68	63	59		66	61	58		64	60	57	56
5	74	65	58	54	72	64	58	53	62	57	53		61	56	52		59	55	52	50
6	69	60	53	48	68	59	53	48	57	52	48		56	51	47		55	50	47	46
7	65	55	49	44	64	54	48	44	53	48	44		52	47	43		51	46	43	42
8	61	51	45	40	60	51	44	40	49	44	40		48	43	40		48	43	40	38
9	58	48	41	37	57	47	41	37	46	41	37		45	40	37		45	40	37	35
10	55	44	38	34	54	44	38	34	43	38	34		42	38	34		42	37	34	33

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°	109.6	6.6	5.8
10°-20°	291.3	17.4	15.3
20°-30°	386.2	23.1	20.3
30°-40°	369.3	22.1	19.4
40°-50°	236.6	14.2	12.5
50°-60°	133.3	8.0	7.0
60°-70°	83.9	5.0	4.4
70°-80°	45.7	2.7	2.4
80°-90°	14.3	0.9	0.8
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°	787.1	47.1	41.4
0°-40°	1156.4	69.2	60.9
0°-60°	1526.2	91.4	80.3
0°-90°	1670.2	100.0	87.9
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°	1670.2	100.0	87.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1179	1179	1179	1179	1179	
5°	1164	1164	1164	1164	1164	110
15°	1039	1039	1039	1039	1039	291
25°	841	841	841	841	841	386
35°	598	598	598	598	598	369
45°	300	300	300	300	300	237
55°	146	146	146	146	146	133
65°	84	84	84	84	84	84
75°	43	43	43	43	43	46
85°	13	13	13	13	13	14
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°	1179	1179	1179	1179	1179	1179	1179	1179	1179
2.5°	1176	1176	1176	1176	1176	1176	1176	1176	1176
5°	1164	1164	1164	1164	1164	1164	1164	1164	1164
7.5°	1145	1145	1145	1145	1145	1145	1145	1145	1145
10°	1116	1116	1116	1116	1116	1116	1116	1116	1116
12.5°	1080	1080	1080	1080	1080	1080	1080	1080	1080
15°	1039	1039	1039	1039	1039	1039	1039	1039	1039
17.5°	994	994	994	994	994	994	994	994	994
20°	948	948	948	948	948	948	948	948	948
22.5°	898	898	898	898	898	898	898	898	898
25°	841	841	841	841	841	841	841	841	841
27.5°	786	786	786	786	786	786	786	786	786
30°	728	728	728	728	728	728	728	728	728
32.5°	665	665	665	665	665	665	665	665	665
35°	598	598	598	598	598	598	598	598	598
37.5°	523	523	523	523	523	523	523	523	523
40°	447	447	447	447	447	447	447	447	447
42.5°	369	369	369	369	369	369	369	369	369
45°	300	300	300	300	300	300	300	300	300
47.5°	243	243	243	243	243	243	243	243	243
50°	200	200	200	200	200	200	200	200	200
52.5°	169	169	169	169	169	169	169	169	169
55°	146	146	146	146	146	146	146	146	146
57.5°	127	127	127	127	127	127	127	127	127
60°	111	111	111	111	111	111	111	111	111
62.5°	97	97	97	97	97	97	97	97	97
65°	84	84	84	84	84	84	84	84	84
67.5°	72	72	72	72	72	72	72	72	72
70°	62	62	62	62	62	62	62	62	62
72.5°	52	52	52	52	52	52	52	52	52
75°	43	43	43	43	43	43	43	43	43
77.5°	34	34	34	34	34	34	34	34	34
80°	27	27	27	27	27	27	27	27	27
82.5°	20	20	20	20	20	20	20	20	20
85°	13	13	13	13	13	13	13	13	13
87.5°	6	6	6	6	6	6	6	6	6
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)