

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: E395641

Luminaire Tested: **H-2576-P (UPPER HEMISPHERE)**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E395641
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H-2576-P (UPPER HEMISPHERE)
Description: HALO CASCADE II
Light Source: 100W.A19 1750 LUMENS
Ballast/Driver: -

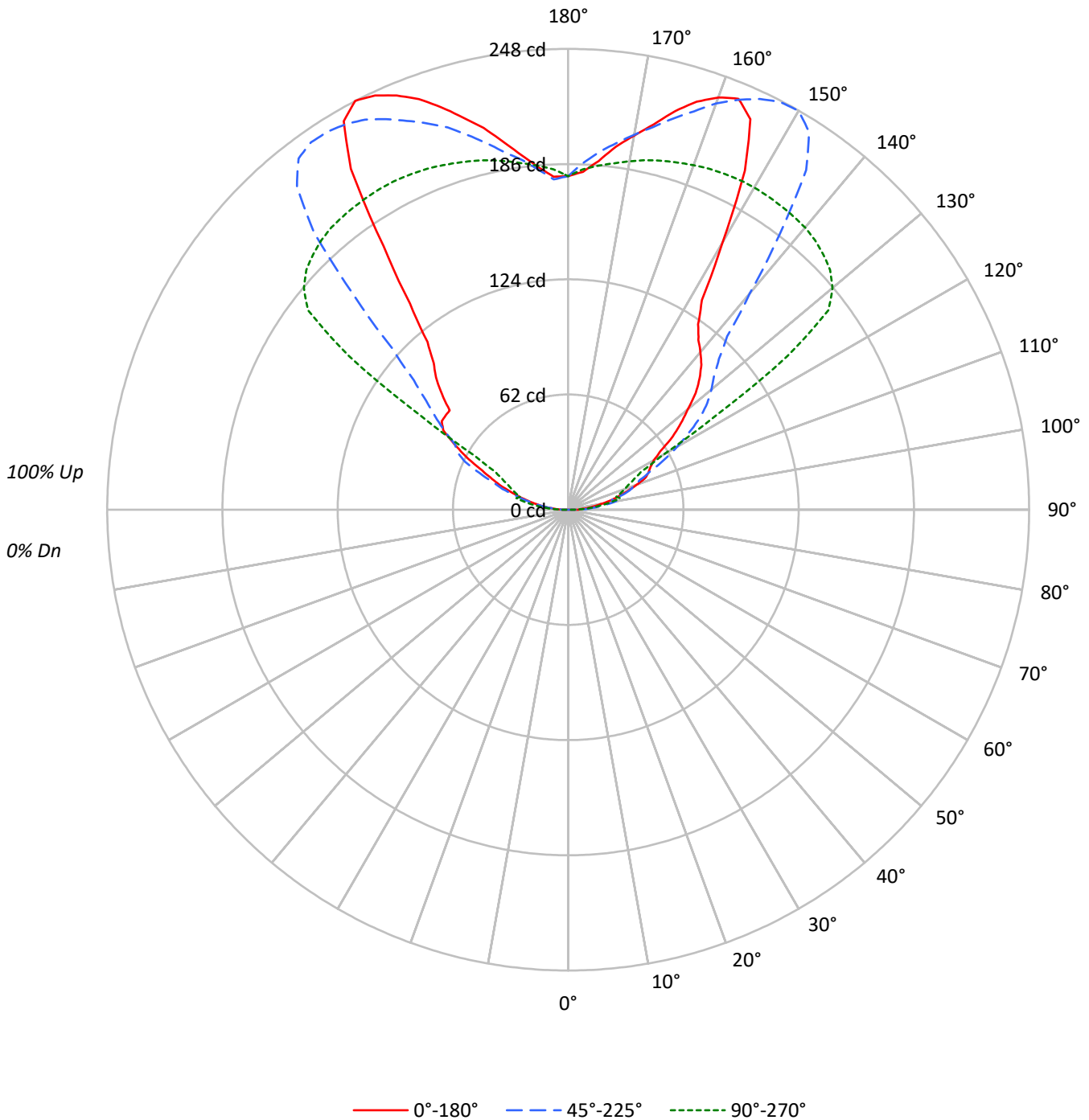
Summary

Lumens per Lamp: 1750 (1 lamp)
Luminaire Lumens: 611.5 lumens
Efficiency: 34.9%
Efficacy: 6.1 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Indirect

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	33	33	33	33	28	28	28	28	19	19	19	11	11	11	4	4	4	0
1	30	29	28	26	26	25	24	23	17	16	16	10	9	9	3	3	3	0
2	28	25	23	22	23	22	20	19	15	14	13	9	8	8	3	3	2	0
3	25	22	20	18	21	19	17	16	13	12	11	8	7	6	2	2	2	0
4	23	19	17	15	19	17	15	13	11	10	9	7	6	5	2	2	2	0
5	21	17	15	13	18	15	13	11	10	9	8	6	5	5	2	2	2	0
6	19	15	13	11	16	13	11	9	9	8	7	5	5	4	2	1	1	0
7	18	14	11	9	15	12	10	8	8	7	6	5	4	3	2	1	1	0
8	16	12	10	8	14	11	9	7	7	6	5	4	4	3	1	1	1	0
9	15	11	9	7	13	10	8	6	7	5	4	4	3	3	1	1	1	0
10	14	10	8	6	12	9	7	5	6	5	4	4	3	2	1	1	1	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
95°	1260	1581	1112
100°	1128	1438	1079
105°	1177	1115	1131
110°	1234	1017	1243
115°	1215	998	1335
120°	1145	1246	1522
125°	1289	2702	1558
130°	1407	3108	1393
135°	1522	2955	1531
140°	1555	2785	1655
145°	1600	2623	2277
150°	2063	2488	3002
155°	2754	2367	2920
160°	2704	2260	2693
165°	2475	2166	2434
170°	2234	2081	2197
175°	2036	2009	1999



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	12.3	2.0	0.7
100°-110°	30.0	4.9	1.7
110°-120°	49.8	8.1	2.8
120°-130°	93.1	15.2	5.3
130°-140°	118.6	19.4	6.8
140°-150°	124.9	20.4	7.1
150°-160°	104.8	17.1	6.0
160°-170°	59.9	9.8	3.4
170°-180°	18.2	3.0	1.0
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.0	0.0	0.0
90°-120°	92.1	15.1	5.3
90°-150°	428.7	70.1	24.5
90°-180°	612.0	100.1	35.0
0°-180°	611.5	100.0	34.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	6	7	2	2	2	
95°	10	15	13	9	9	12
105°	28	30	27	29	27	30
115°	48	49	39	61	52	47
125°	69	87	144	87	83	61
135°	100	115	194	163	101	76
145°	122	223	200	241	173	79
155°	232	244	199	232	246	101
165°	222	218	194	209	218	63
175°	188	193	186	184	185	19
180°	180	180	180	180	180	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	5.6	5.1	7.0	2.9	2.5	2.3	2.0	2.1	2.0
92.5°	6.3	6.5	9.9	5.0	7.4	7.9	5.3	5.4	5.5
95°	10.2	10.1	14.8	9.0	12.8	13.4	9.0	9.0	9.0
97.5°	14.1	14.3	20.3	12.7	17.9	18.7	13.3	13.1	13.2
100°	18.2	18.6	26.2	17.1	23.2	23.9	17.8	17.7	17.4
102.5°	23.6	23.5	24.0	21.5	28.6	22.5	23.6	22.3	22.2
105°	28.3	29.1	29.7	25.8	26.8	27.1	28.9	27.8	27.2
107.5°	33.6	34.5	34.7	29.4	29.5	31.9	36.9	34.0	33.0
110°	39.2	40.1	37.8	33.9	32.3	36.7	42.7	40.1	39.5
112.5°	45.1	44.3	41.8	37.7	35.2	41.7	51.7	47.0	45.2
115°	47.7	46.8	48.7	43.1	39.2	48.2	61.3	55.2	52.4
117.5°	49.9	51.9	58.2	50.5	44.3	60.0	67.3	65.1	62.1
120°	53.2	56.4	67.6	60.2	57.9	92.1	70.3	74.4	70.7
122.5°	58.8	65.8	77.0	78.7	93.1	147.7	78.6	79.9	79.7
125°	68.7	73.6	86.7	117.6	144.0	187.9	87.3	81.1	83.0
127.5°	76.4	81.8	94.3	176.3	176.5	204.6	96.2	81.6	83.2
130°	84.0	90.4	100.6	203.5	185.6	213.5	108.3	90.0	83.2
132.5°	93.1	98.0	106.4	216.3	191.1	218.5	128.4	98.1	92.2
135°	100.0	103.7	114.7	223.2	194.1	221.9	163.1	106.1	100.6
137.5°	106.0	109.1	126.6	226.3	196.6	223.9	202.3	117.1	107.0
140°	110.7	113.9	152.0	227.7	198.2	223.9	227.0	136.2	117.8
142.5°	115.1	119.8	186.8	227.8	199.0	223.9	238.3	171.1	139.8
145°	121.8	131.9	223.1	226.4	199.6	223.3	241.3	212.5	173.3
147.5°	133.8	161.5	241.1	224.6	200.0	222.7	241.1	238.9	217.5
150°	166.0	196.8	247.9	222.2	200.2	221.5	239.5	247.7	241.5
152.5°	205.8	228.2	247.3	219.1	200.0	219.0	236.7	247.3	248.1
155°	231.9	241.6	243.9	215.2	199.3	216.2	231.9	243.7	245.9
157.5°	239.4	241.4	238.7	212.3	198.6	213.2	226.5	238.8	241.3
160°	236.1	236.4	232.6	208.4	197.3	209.7	221.2	231.9	235.1
162.5°	230.2	229.6	224.8	204.4	195.9	206.2	215.7	224.4	227.1
165°	222.1	220.9	217.9	200.7	194.4	202.2	208.7	217.3	218.4
167.5°	212.3	211.6	210.9	197.0	192.7	198.4	201.9	208.6	210.4
170°	204.4	203.9	204.9	193.5	190.4	194.1	195.1	200.3	201.0
172.5°	197.1	196.6	199.0	189.4	188.0	189.6	189.8	192.2	192.4
175°	188.4	190.2	193.3	184.8	185.9	185.7	183.7	184.8	185.0
177.5°	182.0	182.9	186.8	180.1	183.4	182.9	177.9	178.9	179.4
180°	179.5	179.5	179.5	179.5	179.5	179.5	179.5	179.5	179.5

(END OF REPORT)