

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: E395639

Luminaire Tested: **H-2574-P (UPPER HEMISPHERE)**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E395639
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H-2574-P (UPPER HEMISPHERE)
Description: HALO CASCADE I
Light Source: PL13 900 LUMENS
Ballast/Driver: -

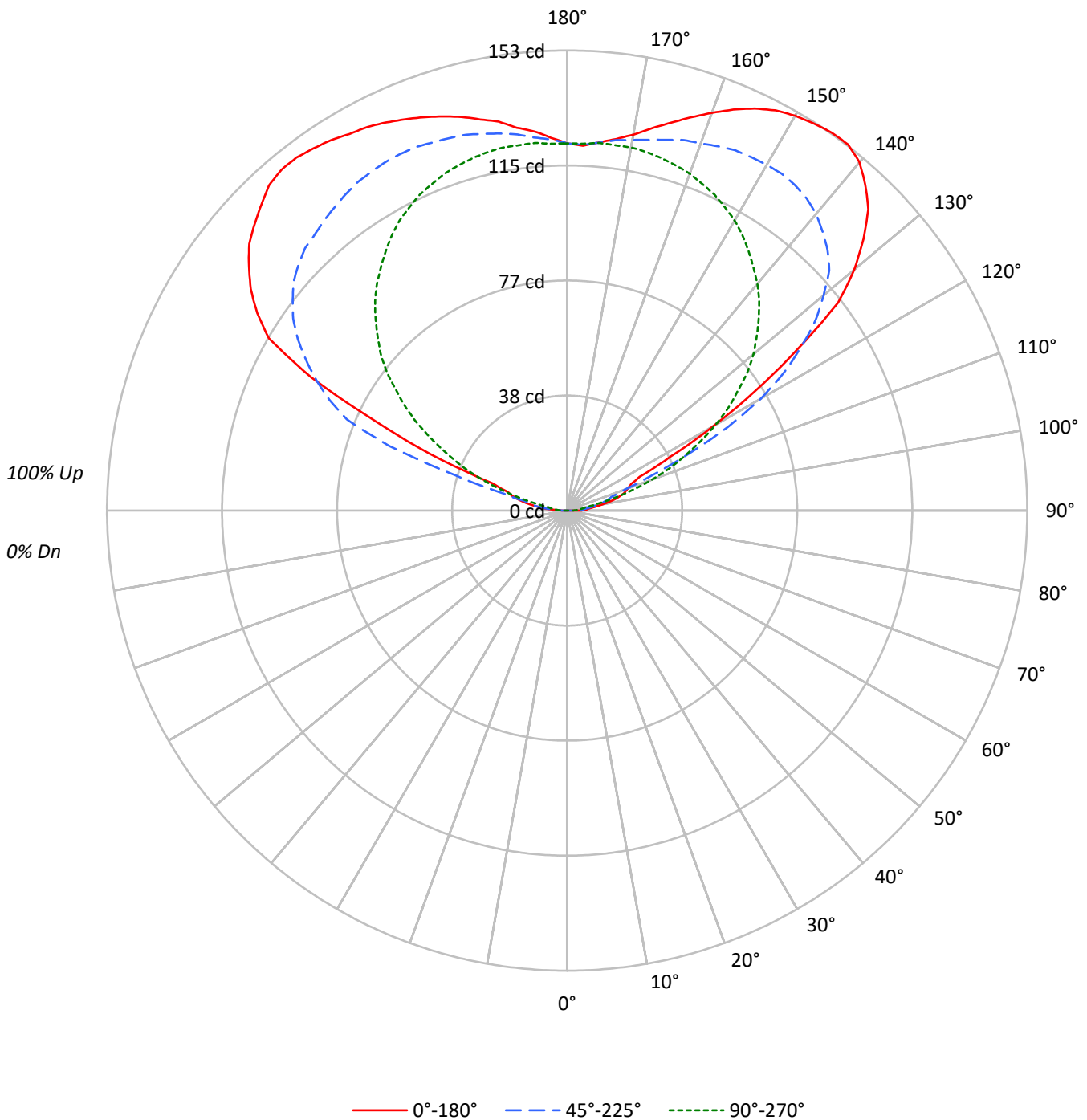
Summary

Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 451.2 lumens
Efficiency: 50.1%
Efficacy: 34.7 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Indirect

Input Watts (W): 13
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	48	48	48	48	41	41	41	41	28	28	28	16	16	16	5	5	5	0
1	43	41	40	38	37	35	34	33	24	23	23	14	14	13	4	4	4	0
2	39	36	33	31	34	31	29	27	21	20	19	12	12	11	4	4	4	0
3	36	32	28	26	31	27	24	22	19	17	16	11	10	9	3	3	3	0
4	33	28	24	22	28	24	21	19	16	15	13	10	9	8	3	3	3	0
5	30	25	21	18	25	21	18	16	15	13	11	8	7	7	3	2	2	0
6	27	22	18	16	23	19	16	14	13	11	10	8	7	6	2	2	2	0
7	25	20	16	13	21	17	14	12	12	10	8	7	6	5	2	2	2	0
8	23	18	14	12	20	15	12	10	11	9	7	6	5	4	2	2	1	0
9	22	16	13	10	18	14	11	9	10	8	6	6	5	4	2	1	1	0
10	20	15	11	9	17	13	10	8	9	7	6	5	4	3	2	1	1	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
95°	852	469	889
100°	738	397	818
105°	749	674	786
110°	673	938	831
115°	677	1103	1793
120°	1203	1227	2465
125°	1757	1299	2410
130°	2087	1355	2311
135°	2156	1372	2189
140°	2125	1383	2078
145°	2016	1382	1932
150°	1884	1385	1797
155°	1752	1377	1691
160°	1612	1365	1594
165°	1488	1352	1510
170°	1387	1340	1435
175°	1328	1326	1368



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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°	6.6	1.5	0.7
100°-110°	21.3	4.7	2.4
110°-120°	55.9	12.4	6.2
120°-130°	85.9	19.0	9.5
130°-140°	91.9	20.4	10.2
140°-150°	80.8	17.9	9.0
150°-160°	60.5	13.4	6.7
160°-170°	36.4	8.1	4.0
170°-180°	11.9	2.6	1.3
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°	83.8	18.6	9.3
90°-150°	342.4	75.9	38.0
90°-180°	451.0	100.0	50.1
0°-180°	451.2	100.0	50.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	5	4	2	1	1	
95°	7	6	4	6	7	8
105°	18	14	16	22	19	18
115°	27	44	43	87	70	31
125°	94	95	69	111	128	83
135°	142	122	90	123	144	108
145°	153	132	105	128	147	96
155°	148	132	116	131	142	68
165°	134	128	121	129	136	38
175°	123	123	123	124	127	12
180°	122	122	122	122	122	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	4.9	4.7	3.8	2.8	1.7	1.0	0.7	0.6	0.6
92.5°	6.3	6.0	5.0	3.8	2.8	3.1	3.4	3.6	3.5
95°	6.9	6.8	5.8	4.6	3.8	5.2	6.4	6.8	7.2
97.5°	9.2	8.9	7.4	6.0	5.1	7.1	9.6	10.1	9.9
100°	11.9	11.2	9.5	7.5	6.4	11.3	12.1	13.0	13.2
102.5°	15.1	14.5	11.9	8.9	10.2	24.4	14.4	15.8	16.2
105°	18.0	16.9	14.0	12.6	16.2	34.7	21.8	18.1	18.9
107.5°	20.1	18.9	15.7	19.9	22.9	43.2	39.1	20.4	20.7
110°	21.4	20.6	20.5	29.7	29.8	50.8	63.0	35.1	26.4
112.5°	23.0	22.2	30.0	39.8	36.9	57.8	79.3	56.7	49.6
115°	26.6	29.7	44.4	49.5	43.3	65.5	87.2	80.9	70.4
117.5°	38.6	45.2	60.3	57.9	50.0	71.3	94.0	103.3	96.0
120°	55.9	61.0	74.2	66.0	57.0	76.5	100.3	111.9	114.5
122.5°	74.3	80.5	85.5	73.6	63.5	81.7	106.2	118.2	122.2
125°	93.6	99.3	95.1	79.0	69.2	86.3	111.2	124.0	128.4
127.5°	113.5	112.7	104.2	84.3	75.5	90.4	115.0	129.0	133.4
130°	124.6	122.1	111.3	89.8	80.9	94.5	118.7	132.8	138.0
132.5°	133.6	130.3	118.2	94.8	85.4	98.7	121.1	136.0	141.0
135°	141.6	136.6	122.5	99.0	90.1	102.4	123.3	138.8	143.8
137.5°	146.8	142.5	125.7	103.0	94.5	105.8	124.3	141.0	146.7
140°	151.2	146.1	128.8	106.8	98.4	108.8	125.8	141.7	147.9
142.5°	153.4	147.9	130.8	109.7	101.8	111.8	127.1	141.7	147.9
145°	153.4	148.4	132.1	112.4	105.2	114.5	128.4	141.5	147.0
147.5°	152.6	147.8	132.8	114.7	108.5	117.0	129.5	140.9	146.1
150°	151.6	147.4	132.7	117.1	111.4	118.6	130.1	140.5	144.6
152.5°	150.0	145.9	132.5	118.7	113.6	120.4	130.7	139.5	143.8
155°	147.5	143.7	132.2	120.1	115.9	121.8	130.9	138.5	142.4
157.5°	144.3	141.0	131.1	120.9	117.5	122.6	130.9	137.8	140.8
160°	140.7	138.2	129.9	121.7	119.2	123.3	130.3	136.5	139.2
162.5°	137.1	135.1	129.2	122.6	120.3	124.0	129.9	135.0	137.4
165°	133.5	132.4	127.6	122.7	121.3	124.2	129.4	133.3	135.5
167.5°	130.2	130.0	126.3	123.3	122.1	124.3	128.3	131.5	133.2
170°	126.9	127.2	125.1	123.1	122.6	124.2	127.3	129.6	131.3
172.5°	124.6	124.8	124.2	122.9	122.5	123.7	126.1	127.6	128.4
175°	122.9	123.3	122.8	122.4	122.7	123.5	124.5	125.9	126.6
177.5°	121.4	122.1	121.7	121.9	122.1	122.7	123.5	123.8	124.1
180°	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1

(END OF REPORT)