

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: E395640

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E395640
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H-2574-P (LOWER HEMISPHERE)
Description: HALO CASCADE I
Light Source: PL13, 900 LUMENS
Ballast/Driver: -

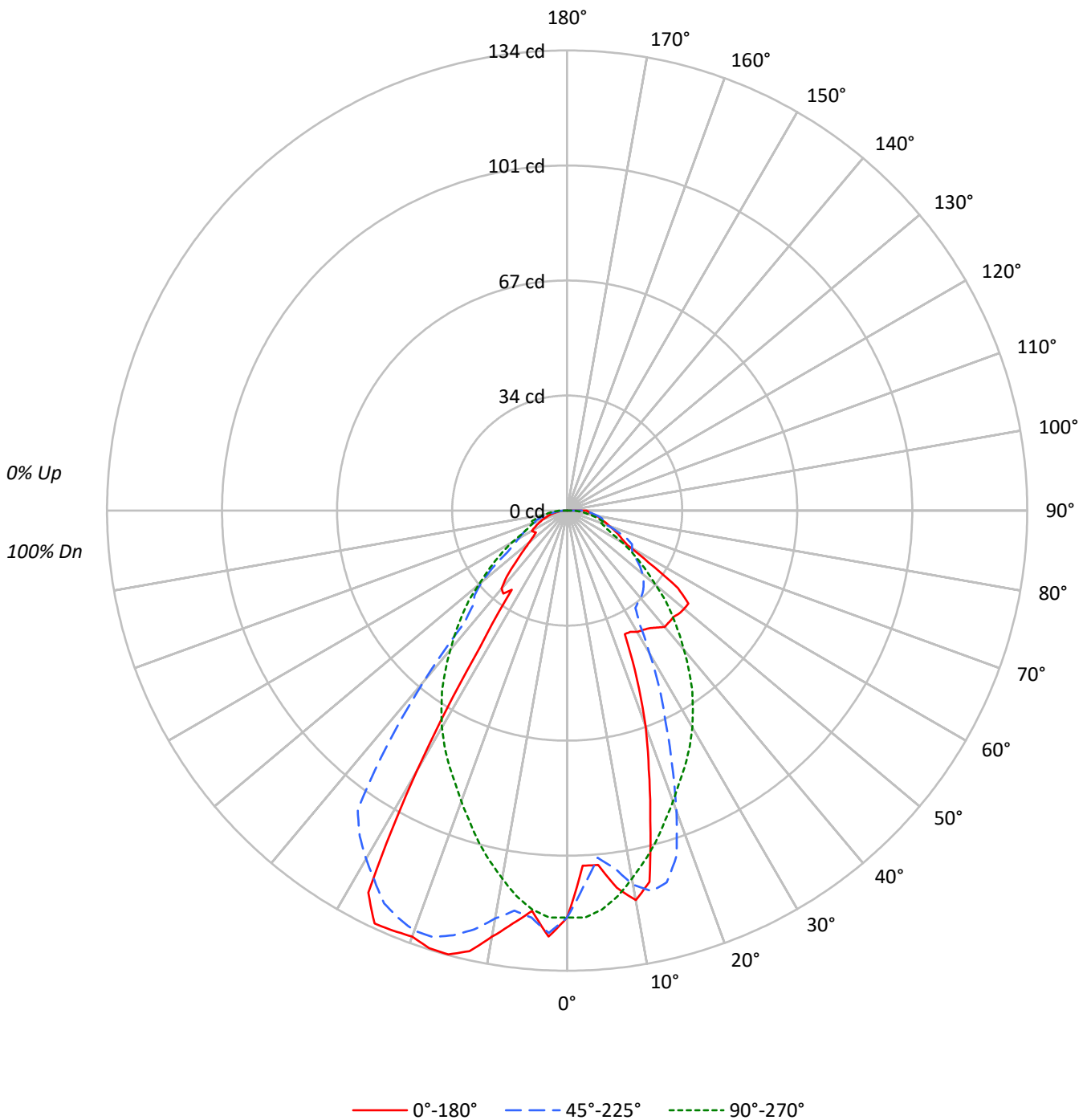
Summary

Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 200.1 lumens
Efficiency: 22.2%
Efficacy: 15.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 0.95 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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

TEST NUMBER: E395640
CATALOG NUMBER: H-2574-P (LOWER HEMISPHERE)

Luminous Intensity Polar Plot





TEST NUMBER: E395640

CATALOG NUMBER: H-2574-P (LOWER HEMISPHERE)

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: E395640

CATALOG NUMBER: H-2574-P (LOWER HEMISPHERE)

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.8	5.4	1.2
10°-20°	31.1	15.6	3.5
20°-30°	42.0	21.0	4.7
30°-40°	37.2	18.6	4.1
40°-50°	29.0	14.5	3.2
50°-60°	21.7	10.9	2.4
60°-70°	14.0	7.0	1.6
70°-80°	9.4	4.7	1.0
80°-90°	4.9	2.4	0.5
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°	83.9	41.9	9.3
0°-40°	121.1	60.5	13.5
0°-60°	171.8	85.9	19.1
0°-90°	200.1	100.0	22.2
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°	200.1	100.0	22.2

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	118	118	118	118	118	
5°	104	102	117	119	117	10
15°	94	112	100	128	134	26
25°	40	68	82	126	133	21
35°	42	35	63	106	28	26
45°	44	32	43	38	21	34
55°	39	24	26	21	11	32
65°	16	19	13	13	10	16
75°	10	11	10	8	6	11
85°	7	7	4	3	2	7
90°	6	5	2	1	1	



TEST NUMBER: E395640

CATALOG NUMBER: H-2574-P (LOWER HEMISPHERE)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	118.5	118.5	118.5	118.5	118.5	118.5	118.5	118.5	118.5
2.5°	103.5	105.6	109.6	113.2	118.6	119.6	123.1	124.0	124.2
5°	103.6	102.5	101.5	106.4	116.6	118.5	119.0	116.4	117.0
7.5°	110.8	110.3	104.9	101.0	113.2	115.4	117.5	120.2	121.3
10°	115.2	115.2	110.6	97.7	108.8	109.7	120.6	124.9	126.0
12.5°	110.7	114.2	113.5	98.1	104.4	106.9	124.9	129.2	131.4
15°	93.5	101.8	112.1	99.2	99.8	105.9	128.0	132.6	133.8
17.5°	79.0	85.4	105.7	99.2	94.7	105.2	130.2	134.6	133.6
20°	66.8	73.1	93.0	97.9	90.1	103.5	130.2	135.5	132.0
22.5°	53.1	61.1	79.7	94.9	85.5	100.2	128.4	137.1	132.4
25°	39.7	46.6	67.7	90.4	81.5	96.2	126.2	137.6	132.7
27.5°	39.8	38.7	58.1	84.0	77.3	91.5	121.5	137.4	125.4
30°	40.8	39.2	48.0	76.9	72.9	86.2	117.1	119.7	87.6
32.5°	41.2	39.7	39.4	68.0	68.1	81.4	112.4	88.3	47.4
35°	41.8	39.9	34.6	59.3	63.4	75.2	106.3	48.9	28.1
37.5°	42.9	40.2	33.8	49.7	58.1	69.5	86.0	37.2	30.5
40°	44.2	40.7	33.3	42.4	52.9	64.3	64.9	37.0	29.7
42.5°	44.0	40.7	32.5	36.2	48.0	58.7	44.2	34.0	26.0
45°	43.8	40.3	31.5	31.0	43.3	53.1	38.5	28.0	20.9
47.5°	44.3	39.4	30.2	26.5	38.9	46.6	36.6	21.9	17.2
50°	44.5	38.8	28.7	22.8	33.5	39.9	32.5	17.9	14.3
52.5°	44.5	38.9	26.7	20.1	29.4	33.9	27.4	15.4	12.4
55°	39.4	37.9	24.5	18.3	25.5	28.5	21.3	14.0	11.1
57.5°	28.1	32.2	22.5	16.7	22.0	24.8	18.3	12.5	11.5
60°	20.5	24.5	21.8	15.2	18.5	19.7	16.4	12.7	11.9
62.5°	18.1	19.9	21.3	13.9	14.9	16.4	14.7	11.0	10.7
65°	16.5	16.7	19.1	12.9	12.9	13.7	12.9	10.4	9.6
67.5°	14.7	14.6	15.6	11.9	11.6	11.5	12.1	9.9	8.4
70°	13.1	13.2	12.4	10.7	10.5	11.1	9.9	8.6	7.5
72.5°	11.8	11.8	10.8	10.9	11.2	9.8	9.6	7.3	6.4
75°	10.4	10.5	10.8	9.6	9.7	8.3	7.9	6.2	5.5
77.5°	9.6	10.8	10.3	8.2	8.1	6.7	6.5	5.2	4.5
80°	8.6	9.5	9.1	7.0	6.7	5.4	5.1	4.1	3.7
82.5°	7.5	8.3	7.7	5.8	5.3	4.0	3.9	3.0	2.8
85°	6.6	7.2	6.8	4.7	4.0	2.9	2.6	2.1	2.1
87.5°	6.0	6.5	5.8	3.8	2.9	1.8	1.6	1.3	1.4
90°	5.7	6.2	5.4	3.4	2.2	1.2	0.8	0.6	0.6

(END OF REPORT)