

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: E395638

Luminaire Tested: **H-2573-P (LOWER HEMISPHERE)**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E395638
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H-2573-P (LOWER HEMISPHERE)
Description: HALO CASCADE I
Light Source: 100W.A19 1750 LUMENS
Ballast/Driver: -

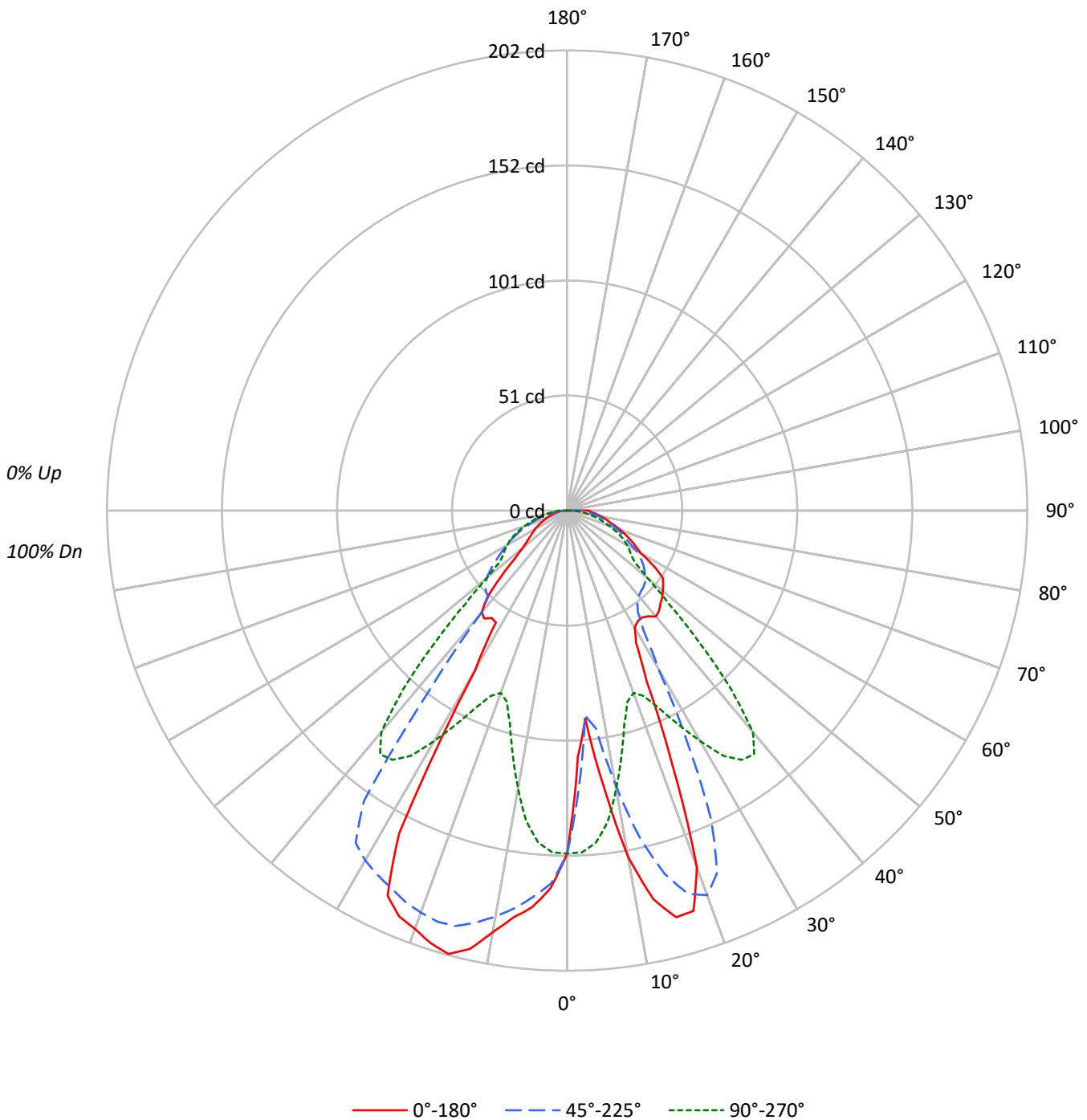
Summary

Lumens per Lamp: 1750 (1 lamp)
Luminaire Lumens: 304.0 lumens
Efficiency: 17.4%
Efficacy: 3.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.33 / 1.07
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	1621	1621	1621
5°	990	1580	1888
10°	1689	1355	2054
15°	2059	1080	2245
20°	1906	976	2238
25°	977	1138	2215
30°	737	1452	1003
35°	753	1756	757
40°	853	1782	819
45°	881	1257	626
50°	918	765	422
55°	961	646	372
60°	801	654	353
65°	784	652	321
70°	784	620	299
75°	794	607	283
80°	955	607	285
85°	1433	692	333



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	13.5	4.4	0.8
10°-20°	45.9	15.1	2.6
20°-30°	64.8	21.3	3.7
30°-40°	52.4	17.2	3.0
40°-50°	44.0	14.5	2.5
50°-60°	36.0	11.8	2.1
60°-70°	24.7	8.1	1.4
70°-80°	15.5	5.1	0.9
80°-90°	7.4	2.4	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°	124.1	40.8	7.1
0°-40°	176.5	58.1	10.1
0°-60°	256.4	84.3	14.7
0°-90°	304.0	100.0	17.4
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°	304.0	100.0	17.4

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	151	151	151	151	151	
5°	92	90	146	170	175	11
15°	185	165	97	189	202	50
25°	82	150	96	183	186	43
35°	57	54	134	156	58	37
45°	58	47	83	50	41	45
55°	51	41	34	38	20	44
65°	31	28	26	24	13	31
75°	19	18	15	13	7	21
85°	12	10	6	4	3	13
90°	10	8	3	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6
2.5°	108.2	108.8	120.8	135.1	150.1	159.3	163.9	165.2	165.8
5°	91.6	89.5	90.2	113.9	146.2	163.6	170.2	173.3	174.7
7.5°	121.5	113.7	96.4	91.5	137.4	166.8	176.0	179.7	180.1
10°	154.5	147.3	122.2	89.3	124.0	168.7	180.9	185.9	187.9
12.5°	174.7	169.0	147.0	100.7	110.1	169.6	185.2	194.6	197.1
15°	184.8	182.2	165.0	118.1	96.9	168.1	188.8	199.2	201.5
17.5°	184.3	185.0	176.4	135.8	88.0	163.9	189.2	199.1	199.1
20°	166.4	174.3	179.7	149.8	85.2	154.8	187.8	197.1	195.4
22.5°	120.4	146.1	172.0	160.9	88.1	141.3	185.8	194.6	192.8
25°	82.3	99.8	149.7	167.0	95.8	126.4	182.8	191.0	186.5
27.5°	65.6	73.1	113.5	164.7	105.9	107.2	180.3	182.6	159.6
30°	59.3	61.2	79.8	152.1	116.8	87.6	177.3	142.0	80.7
32.5°	57.6	57.7	62.2	124.4	127.6	72.6	172.8	71.8	58.3
35°	57.3	56.6	54.0	94.8	133.6	61.6	155.5	54.2	57.6
37.5°	58.5	55.9	50.5	68.2	134.8	58.7	98.8	52.3	59.7
40°	60.7	56.2	48.9	50.9	126.8	64.1	58.5	52.6	58.3
42.5°	59.7	57.3	48.0	43.4	106.7	72.3	51.3	51.2	52.2
45°	57.9	56.3	47.4	39.8	82.6	83.7	50.4	47.2	41.1
47.5°	56.6	54.0	46.4	37.9	60.7	94.2	48.7	38.4	31.0
50°	54.8	51.9	44.8	36.7	45.7	96.6	46.2	32.3	25.2
52.5°	53.1	50.2	42.8	35.5	37.6	87.6	42.2	28.1	22.1
55°	51.2	48.2	40.6	33.8	34.4	67.3	38.1	25.6	19.8
57.5°	44.9	44.1	37.9	32.0	32.5	47.3	34.3	23.1	17.8
60°	37.2	37.7	34.8	29.8	30.4	36.1	30.8	20.4	16.4
62.5°	33.9	34.1	30.8	27.2	28.2	31.3	27.6	17.8	14.4
65°	30.8	31.1	28.1	24.7	25.6	27.9	24.3	16.1	12.6
67.5°	27.8	27.9	25.6	22.4	22.7	24.3	20.7	14.1	11.0
70°	24.9	25.0	23.0	19.9	19.7	20.5	17.6	12.2	9.5
72.5°	21.8	22.1	20.2	17.7	17.1	17.3	15.1	10.3	8.1
75°	19.1	19.6	17.6	15.6	14.6	14.6	12.6	8.7	6.8
77.5°	17.3	17.4	16.1	13.2	12.0	11.8	9.9	7.1	5.7
80°	15.4	15.3	13.8	11.2	9.8	9.0	7.8	5.6	4.6
82.5°	13.4	13.2	11.5	9.2	7.6	6.7	5.6	4.1	3.7
85°	11.6	11.2	9.7	7.4	5.6	4.6	3.8	2.9	2.7
87.5°	10.3	9.8	8.2	5.8	4.0	2.9	2.3	1.8	1.8
90°	9.5	9.1	7.5	5.2	3.1	1.9	1.4	1.1	1.1

(END OF REPORT)