

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: H24039

Luminaire Tested: **H1-ICF-110**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H24039
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H1-ICF-110
Description: HALO 8" SQ. RECESSED DOWNLIGHT
WHITE REFLECTOR - ALBALITE LENS
Light Source: (2) F13QT/4P 13 WATTS 900 LUMENS EACH
13mm QUAD TUBE COMPACT FLUORESCENT - 4 PIN BASE
Ballast/Driver: -

Summary

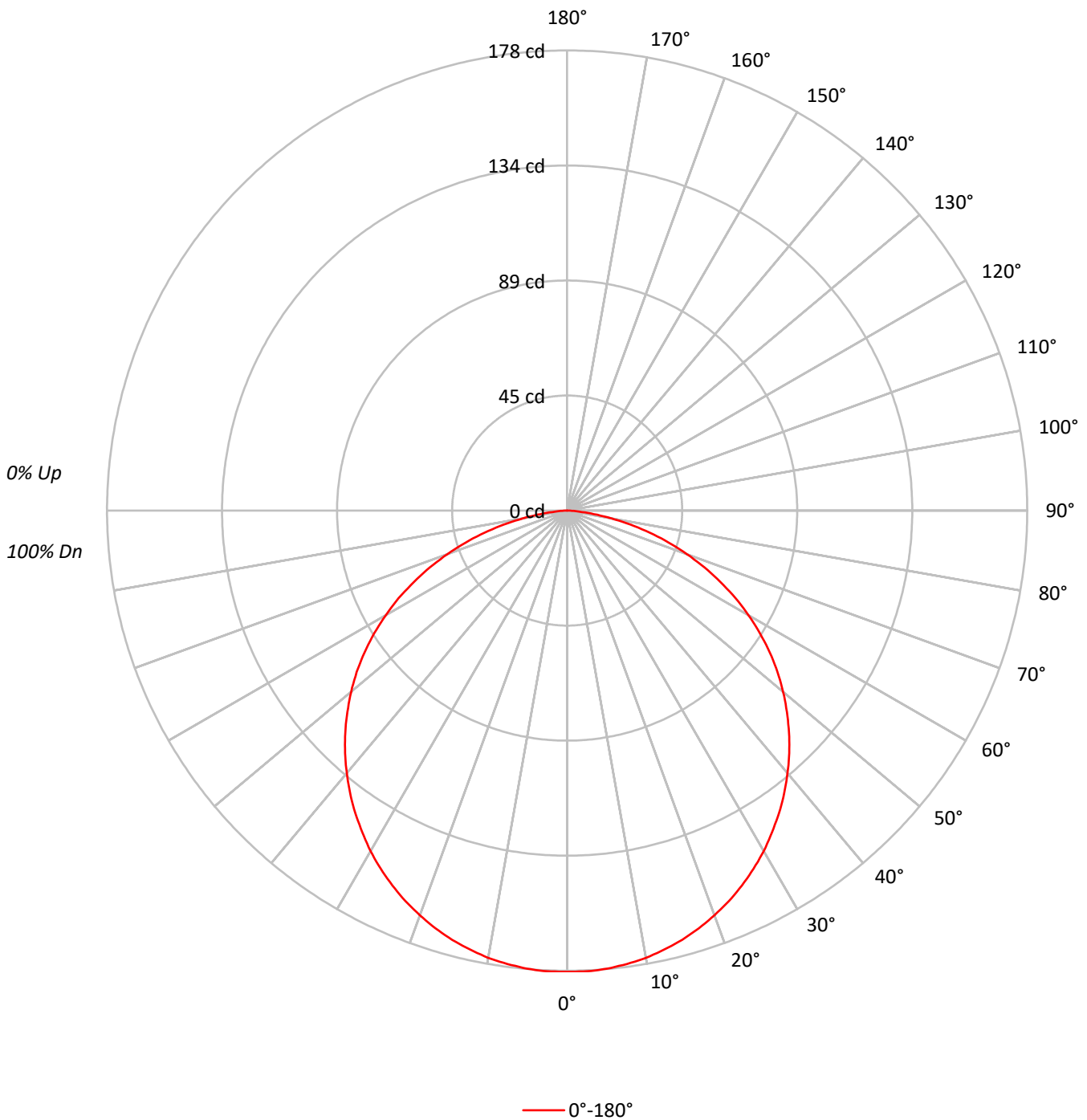
Lumens per Lamp: 900 (2 lamps)
Luminaire Lumens: 513.9 lumens
Efficiency: 28.6%
Efficacy: 25.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.64' x L: 0.64' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4688
5°	4693
10°	4688
15°	4677
20°	4659
25°	4639
30°	4615
35°	4584
40°	4549
45°	4512
50°	4460
55°	4385
60°	4257
65°	4067
70°	3788
75°	3361
80°	2618
85°	1387



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	16.9	3.3	0.9
10°-20°	48.5	9.4	2.7
20°-30°	73.8	14.4	4.1
30°-40°	89.4	17.4	5.0
40°-50°	93.6	18.2	5.2
50°-60°	85.4	16.6	4.7
60°-70°	64.7	12.6	3.6
70°-80°	34.9	6.8	1.9
80°-90°	6.7	1.3	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°	139.2	27.1	7.7
0°-40°	228.6	44.5	12.7
0°-60°	407.6	79.3	22.6
0°-90°	513.9	100.0	28.6
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°	513.9	100.0	28.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	178	
5°	178	17
15°	172	49
25°	160	74
35°	143	89
45°	121	94
55°	96	85
65°	65	65
75°	33	35
85°	5	7
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	178.4
2.5°	178.4
5°	177.9
7.5°	176.9
10°	175.7
12.5°	173.9
15°	171.9
17.5°	169.4
20°	166.6
22.5°	163.5
25°	160.0
27.5°	156.2
30°	152.1
32.5°	147.5
35°	142.9
37.5°	137.9
40°	132.6
42.5°	127.2
45°	121.4
47.5°	115.3
50°	109.1
52.5°	102.6
55°	95.7
57.5°	88.5
60°	81.0
62.5°	73.5
65°	65.4
67.5°	57.5
70°	49.3
72.5°	41.2
75°	33.1
77.5°	25.0
80°	17.3
82.5°	10.4
85°	4.6
87.5°	1.1
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)