

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: H24036

Luminaire Tested: **H1-ICF-113P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H24036
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H1-ICF-113P
Description: HALO 8" SQ. RECESSED DOWNLIGHT
WHITE REFLECTOR - FRESNEL LENS
Light Source: (2) F13QT/4P 13 WATTS 900 LUMENS EACH
13mm QUAD TUBE COMPACT FLUORESCENT 4 PIN BASE
Ballast/Driver: -

Summary

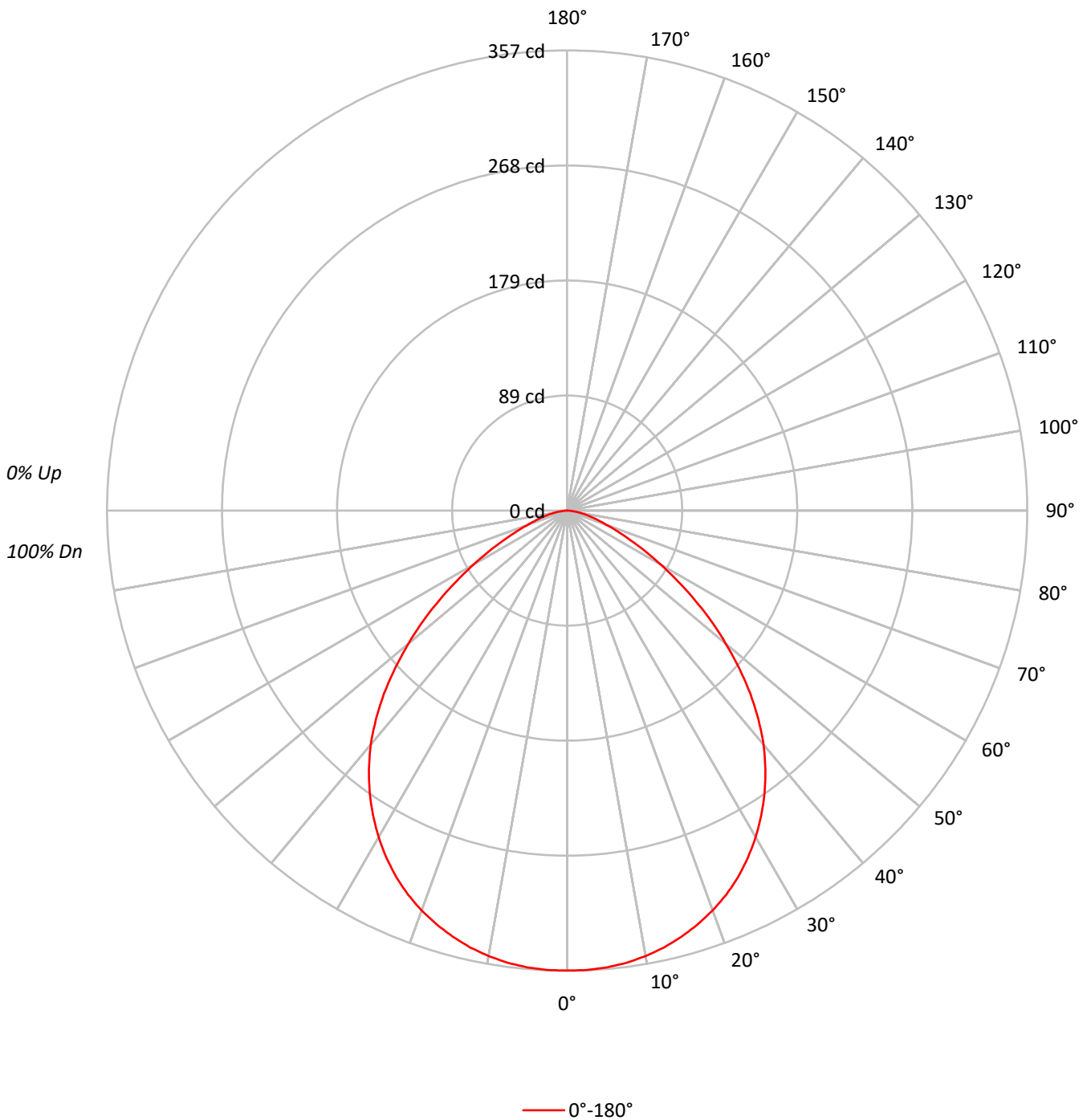
Lumens per Lamp: 900 (2 lamps)
Luminaire Lumens: 784.7 lumens
Efficiency: 43.6%
Efficacy: 39.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.29
Luminous Opening: Rectangular (W 0.64' x L: 0.64' x H: 0')
CIE Type: Direct

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	52	52	52	52	51	51	51	51	48	48	48	46	46	46	44	44	44	44
1	48	47	45	44	47	46	44	43	44	43	42	42	41	40	41	40	39	38
2	45	41	39	37	43	41	38	36	39	37	35	38	36	35	36	35	34	33
3	41	37	34	31	40	36	33	31	35	33	31	34	32	30	33	31	30	29
4	38	33	30	27	37	33	29	27	32	29	27	31	28	26	30	28	26	25
5	35	30	26	24	34	30	26	24	29	26	23	28	25	23	27	25	23	22
6	33	27	24	21	32	27	23	21	26	23	21	25	23	21	25	22	20	20
7	30	25	21	19	30	24	21	19	24	21	19	23	21	18	23	20	18	18
8	28	23	19	17	28	22	19	17	22	19	17	21	19	17	21	18	17	16
9	26	21	18	15	26	21	17	15	20	17	15	20	17	15	19	17	15	14
10	25	19	16	14	24	19	16	14	19	16	14	18	16	14	18	16	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9376
5°	9383
10°	9364
15°	9313
20°	9231
25°	9096
30°	8876
35°	8569
40°	8134
45°	7470
50°	6574
55°	5535
60°	4404
65°	3364
70°	2536
75°	2031
80°	1574
85°	1116



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	33.8	4.3	1.9
10°-20°	96.6	12.3	5.4
20°-30°	144.3	18.4	8.0
30°-40°	166.6	21.2	9.3
40°-50°	154.2	19.6	8.6
50°-60°	108.2	13.8	6.0
60°-70°	55.0	7.0	3.1
70°-80°	21.6	2.7	1.2
80°-90°	4.5	0.6	0.3
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°	274.6	35.0	15.3
0°-40°	441.2	56.2	24.5
0°-60°	703.6	89.7	39.1
0°-90°	784.7	100.0	43.6
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°	784.7	100.0	43.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	357	
5°	356	34
15°	342	97
25°	314	144
35°	267	167
45°	201	154
55°	121	108
65°	54	55
75°	20	22
85°	4	4
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°	356.8
2.5°	356.7
5°	355.7
7.5°	353.8
10°	350.9
12.5°	347.2
15°	342.3
17.5°	336.7
20°	330.1
22.5°	322.5
25°	313.7
27.5°	303.7
30°	292.5
32.5°	280.3
35°	267.1
37.5°	252.7
40°	237.1
42.5°	219.6
45°	201.0
47.5°	180.9
50°	160.8
52.5°	141.0
55°	120.8
57.5°	101.5
60°	83.8
62.5°	67.9
65°	54.1
67.5°	42.4
70°	33.0
72.5°	25.5
75°	20.0
77.5°	14.7
80°	10.4
82.5°	6.7
85°	3.7
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)