

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: H24037

Luminaire Tested: **H1-ICF-116P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H24037
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H1-ICF-116P
Description: HALO 8" SQ. RECESSED DOWNLIGHT
WHITE REFLECTOR - PLASTIC STEP DROP LENS
Light Source: (2) F13QT/4P 13 WATTS 900 LUMENS EACH
13mm QUAD TUBE COMPACT FLUORESCENT
Ballast/Driver: -

Summary

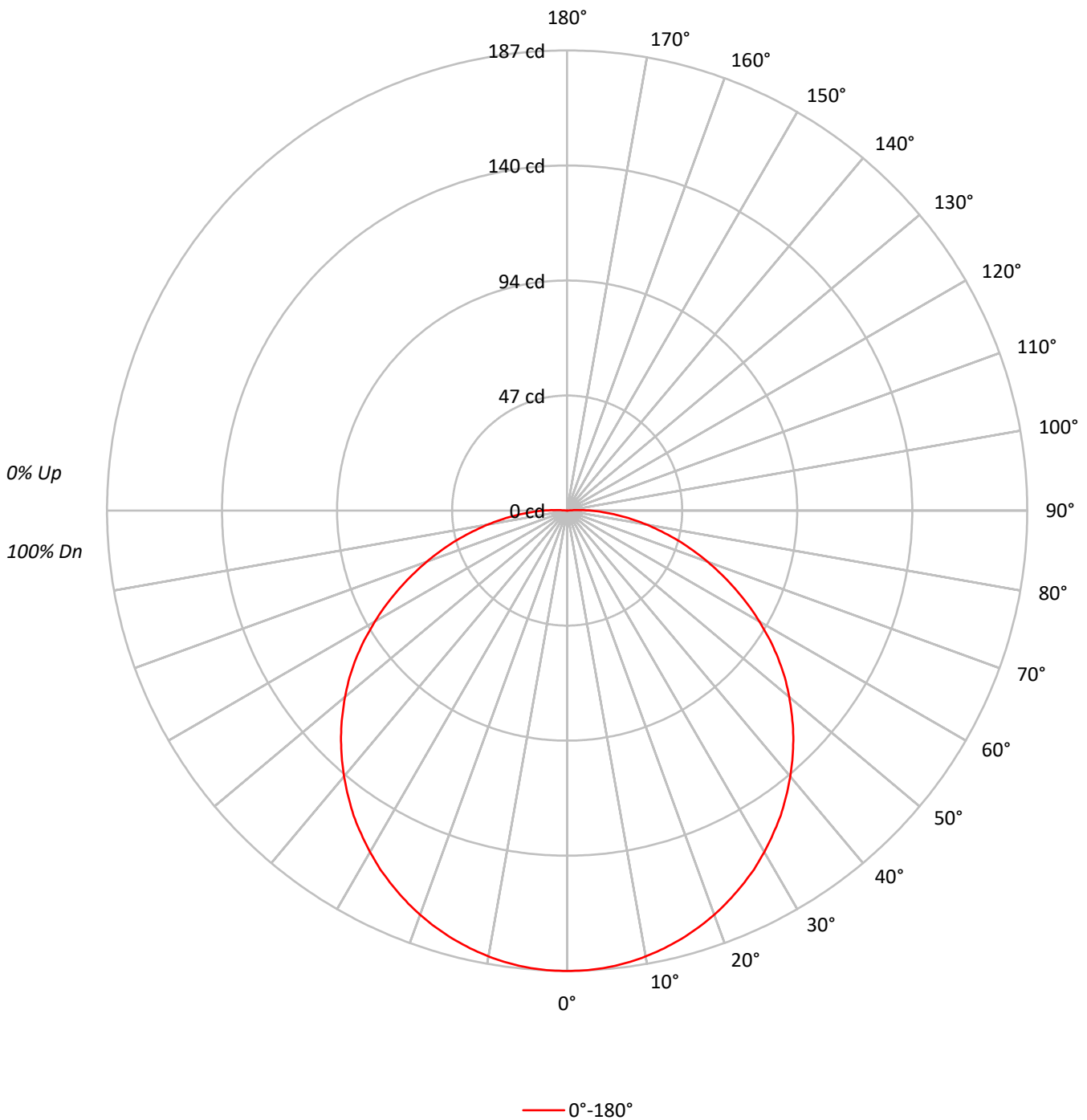
Lumens per Lamp: 900 (2 lamps)
Luminaire Lumens: 583.1 lumens
Efficiency: 32.4%
Efficacy: 29.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.64' x L: 0.64' x H: 0.04')
CIE Type: Direct

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	39	39	39	39	38	38	38	38	36	36	36	34	34	34	33	33	33	32
1	35	33	32	30	34	32	31	30	31	30	29	30	29	28	28	28	27	26
2	32	29	26	24	31	28	26	24	27	25	23	26	24	23	25	23	22	22
3	29	25	22	20	28	24	22	20	23	21	19	23	21	19	22	20	19	18
4	26	22	19	17	25	22	19	17	21	18	16	20	18	16	19	17	16	15
5	24	20	17	14	23	19	16	14	19	16	14	18	16	14	17	15	14	13
6	22	18	15	13	22	17	15	12	17	14	12	16	14	12	16	14	12	11
7	21	16	13	11	20	16	13	11	15	13	11	15	12	11	14	12	11	10
8	19	15	12	10	19	14	12	10	14	11	10	13	11	10	13	11	10	9
9	18	13	11	9	17	13	11	9	13	10	9	12	10	9	12	10	9	8
10	17	12	10	8	16	12	10	8	12	10	8	12	9	8	11	9	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4917
5°	4890
10°	4856
15°	4819
20°	4780
25°	4736
30°	4692
35°	4650
40°	4599
45°	4547
50°	4482
55°	4404
60°	4278
65°	4134
70°	3974
75°	3820
80°	3654
85°	3553



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	17.7	3.0	1.0
10°-20°	50.8	8.7	2.8
20°-30°	77.5	13.3	4.3
30°-40°	94.6	16.2	5.3
40°-50°	100.2	17.2	5.6
50°-60°	93.5	16.0	5.2
60°-70°	74.7	12.8	4.1
70°-80°	49.0	8.4	2.7
80°-90°	22.4	3.8	1.2
90°-100°	2.6	0.4	0.1
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°	146.1	25.1	8.1
0°-40°	240.7	41.3	13.4
0°-60°	434.4	74.5	24.1
0°-90°	580.5	99.6	32.3
90°-120°	2.6	0.4	0.1
90°-150°	2.6	0.4	0.1
90°-180°	3.0	0.5	0.2
0°-180°	583.1	100.0	32.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	187	
5°	186	18
15°	180	51
25°	168	78
35°	151	95
45°	130	100
55°	105	93
65°	75	75
75°	46	49
85°	20	19
90°	10	5
95°	0	1
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°	187.1
2.5°	187.0
5°	186.4
7.5°	185.4
10°	184.0
12.5°	182.2
15°	180.1
17.5°	177.6
20°	174.8
22.5°	171.6
25°	168.1
27.5°	164.4
30°	160.2
32.5°	155.8
35°	151.3
37.5°	146.2
40°	141.1
42.5°	135.6
45°	130.0
47.5°	124.0
50°	117.8
52.5°	111.5
55°	104.7
57.5°	97.6
60°	90.2
62.5°	82.9
65°	75.4
67.5°	68.0
70°	60.6
72.5°	53.5
75°	46.4
77.5°	39.3
80°	32.7
82.5°	26.3
85°	20.2
87.5°	14.4
90°	9.8
92.5°	4.3
95°	0.3
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)