

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: H24026

Luminaire Tested: **H1-F-116PG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H24026
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H1-F-116PG
Description: HALO 8" SQ. RECESSED DOWNLIGHT
WHITE REFLECTOR - GLASS STEP DROP LENS
Light Source: (2) 18WQT 18 WATTS 1250 LUMENS EACH
13mm QUAD TUBE COMPACT FLUORESCENT
Ballast/Driver: -

Summary

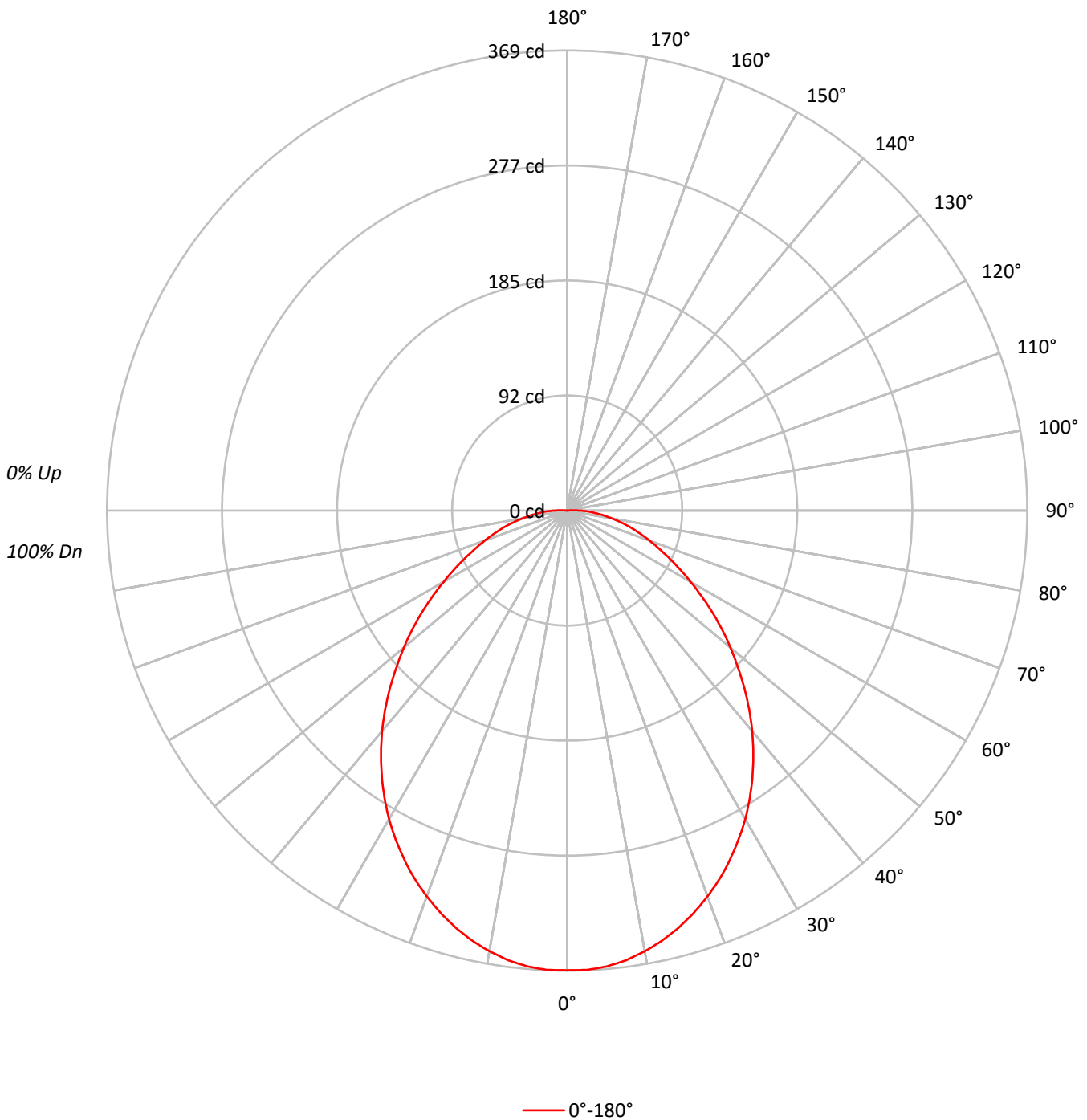
Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 892.0 lumens
Efficiency: 35.7%
Efficacy: 18.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 0.64' x L: 0.64' x H: 0.04')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): 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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CATALOG NUMBER: H1-F-116PG

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	42	42	42	42	41	41	41	41	40	40	40	38	38	38	36	36	36	36
1	39	37	36	34	38	36	35	34	35	34	33	33	32	32	32	31	31	30
2	35	33	30	28	34	32	30	28	31	29	27	29	28	27	28	27	26	25
3	32	29	26	24	32	28	26	23	27	25	23	26	24	23	25	24	22	21
4	30	26	23	20	29	25	22	20	24	22	20	23	21	20	23	21	19	19
5	28	23	20	18	27	23	20	18	22	19	17	21	19	17	21	19	17	16
6	25	21	18	15	25	20	18	15	20	17	15	19	17	15	19	17	15	14
7	24	19	16	14	23	19	16	14	18	16	14	18	15	14	17	15	13	13
8	22	17	14	12	22	17	14	12	17	14	12	16	14	12	16	14	12	11
9	21	16	13	11	20	16	13	11	15	13	11	15	13	11	15	13	11	10
10	19	15	12	10	19	15	12	10	14	12	10	14	12	10	14	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9689
5°	9626
10°	9470
15°	9261
20°	9002
25°	8703
30°	8365
35°	7970
40°	7523
45°	7024
50°	6506
55°	5969
60°	5425
65°	4951
70°	4603
75°	4355
80°	4101
85°	3975



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.8	3.9	1.4
10°-20°	97.5	10.9	3.9
20°-30°	142.1	15.9	5.7
30°-40°	161.9	18.2	6.5
40°-50°	154.9	17.4	6.2
50°-60°	127.1	14.3	5.1
60°-70°	90.1	10.1	3.6
70°-80°	56.0	6.3	2.2
80°-90°	24.8	2.8	1.0
90°-100°	2.7	0.3	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°	274.4	30.8	11.0
0°-40°	436.3	48.9	17.5
0°-60°	718.3	80.5	28.7
0°-90°	889.2	99.7	35.6
90°-120°	2.7	0.3	0.1
90°-150°	2.7	0.3	0.1
90°-180°	3.0	0.3	0.1
0°-180°	892.0	100.0	35.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	369	
5°	367	35
15°	346	97
25°	309	142
35°	259	162
45°	201	155
55°	142	127
65°	90	90
75°	53	56
85°	23	21
90°	10	6
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°	368.7
2.5°	368.7
5°	366.9
7.5°	363.6
10°	358.8
12.5°	353.1
15°	346.1
17.5°	338.1
20°	329.2
22.5°	319.6
25°	308.9
27.5°	297.6
30°	285.6
32.5°	272.7
35°	259.3
37.5°	245.2
40°	230.8
42.5°	216.0
45°	200.8
47.5°	185.5
50°	171.0
52.5°	156.5
55°	141.9
57.5°	127.8
60°	114.4
62.5°	102.0
65°	90.3
67.5°	79.8
70°	70.2
72.5°	61.3
75°	52.9
77.5°	44.5
80°	36.7
82.5°	29.2
85°	22.6
87.5°	15.9
90°	10.2
92.5°	4.3
95°	0.4
97.5°	0.1
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)