

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: H24038

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H24038
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H1-ICF-116PG
Description: HALO 8" SQ. RECESSED DOWNLIGHT
WHITE REFLECTOR - GLASS STEP DROP LENS
Light Source: (2) F13QT/4P 13 WATTS 900 LUMENS EACH
13mm QUAD TUBE COMPACT FLUORESCENT - 4 PIN BASE
Ballast/Driver: -

Summary

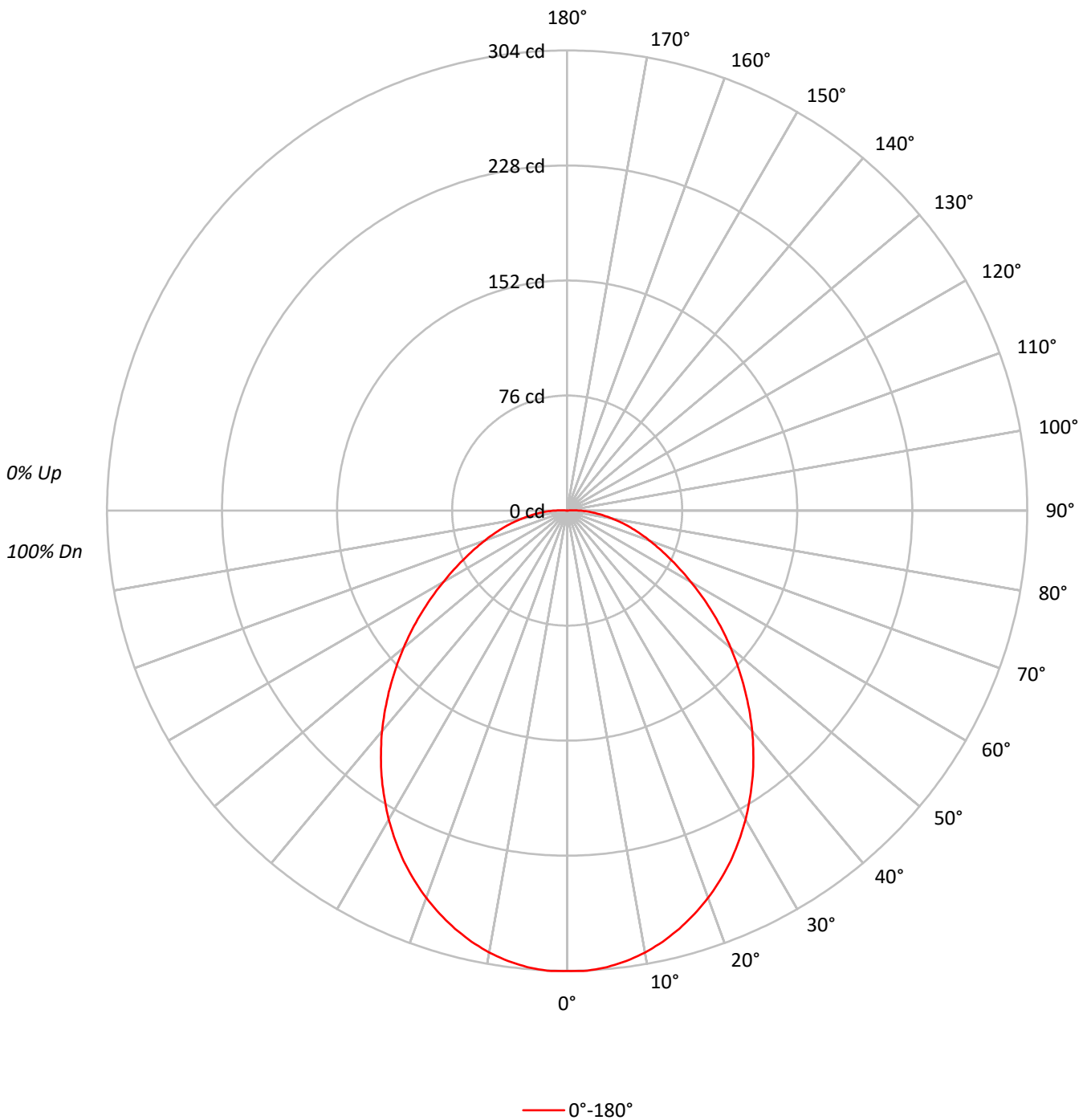
Lumens per Lamp: 900 (2 lamps)
Luminaire Lumens: 735.8 lumens
Efficiency: 40.9%
Efficacy: 36.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 0.64' x L: 0.64' x H: 0.04')
CIE Type: Direct

Input Watts (W): 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	49	49	49	49	47	47	47	47	45	45	45		43	43	43		42	42	42	41
1	44	43	41	39	43	42	40	39	40	39	37		38	37	36		37	36	35	34
2	41	37	35	32	40	37	34	32	35	33	31		34	32	30		32	31	30	29
3	37	33	30	27	36	32	29	27	31	29	26		30	28	26		29	27	25	25
4	34	29	26	23	33	29	26	23	28	25	23		27	24	22		26	24	22	21
5	32	26	23	20	31	26	23	20	25	22	20		24	22	20		24	21	19	19
6	29	24	20	18	28	23	20	18	23	20	18		22	19	17		21	19	17	16
7	27	22	18	16	26	21	18	16	21	18	16		20	17	15		20	17	15	15
8	25	20	17	14	25	20	16	14	19	16	14		19	16	14		18	16	14	13
9	24	18	15	13	23	18	15	13	18	15	13		17	15	13		17	14	13	12
10	22	17	14	12	22	17	14	12	16	14	12		16	13	12		16	13	11	11

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7994
5°	7942
10°	7823
15°	7653
20°	7446
25°	7199
30°	6903
35°	6571
40°	6203
45°	5792
50°	5365
55°	4930
60°	4477
65°	4085
70°	3797
75°	3581
80°	3363
85°	3219



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	28.7	3.9	1.6
10°-20°	80.6	10.9	4.5
20°-30°	117.5	16.0	6.5
30°-40°	133.5	18.1	7.4
40°-50°	127.7	17.4	7.1
50°-60°	104.9	14.3	5.8
60°-70°	74.4	10.1	4.1
70°-80°	46.1	6.3	2.6
80°-90°	20.3	2.8	1.1
90°-100°	2.1	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°	226.7	30.8	12.6
0°-40°	360.3	49.0	20.0
0°-60°	592.9	80.6	32.9
0°-90°	733.7	99.7	40.8
90°-120°	2.1	0.3	0.1
90°-150°	2.1	0.3	0.1
90°-180°	2.0	0.3	0.1
0°-180°	735.8	100.0	40.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	304	
5°	303	29
15°	286	81
25°	256	117
35°	214	134
45°	166	128
55°	117	105
65°	74	74
75°	44	46
85°	18	17
90°	8	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°	304.2
2.5°	304.3
5°	302.7
7.5°	300.2
10°	296.4
12.5°	291.8
15°	286.0
17.5°	279.5
20°	272.3
22.5°	264.2
25°	255.5
27.5°	245.9
30°	235.7
32.5°	224.9
35°	213.8
37.5°	202.1
40°	190.3
42.5°	177.9
45°	165.6
47.5°	153.2
50°	141.0
52.5°	129.1
55°	117.2
57.5°	105.6
60°	94.4
62.5°	84.2
65°	74.5
67.5°	65.8
70°	57.9
72.5°	50.6
75°	43.5
77.5°	36.7
80°	30.1
82.5°	23.9
85°	18.3
87.5°	13.0
90°	8.4
92.5°	3.3
95°	0.2
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)