

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: H24025

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H24025
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H1-F-116P
Description: HALO 8" SQ. RECESSED DOWNLIGHT
WHITE REFLECTOR - PLASTIC DROP LENS
Light Source: (2) 18WQT 18 WATTS 1250 LUMENS EACH
13mm QUAD TUBE COMPACT FLUORESCENT
Ballast/Driver: -

Summary

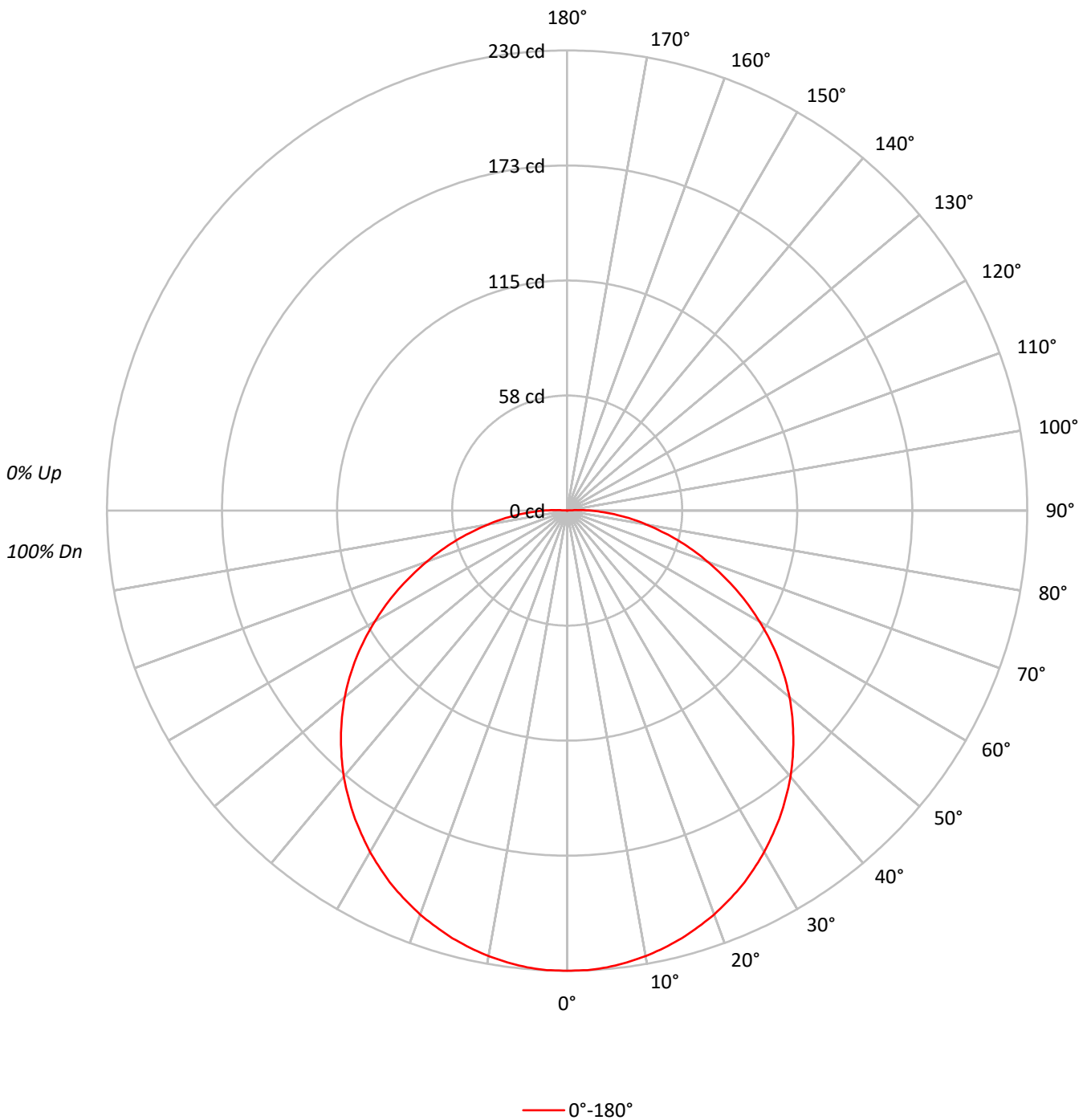
Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 718.0 lumens
Efficiency: 28.7%
Efficacy: 15.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.64' x L: 0.64' x H: 0.04')
CIE Type: Direct

Input Watts (W): 48
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	29	28	27	30	29	27	26	27	26	25	26	25	25	25	25	24	23
2	28	25	23	22	27	25	23	21	24	22	21	23	21	20	22	21	20	19
3	25	22	20	18	25	22	19	18	21	19	17	20	18	17	19	18	17	16
4	23	20	17	15	22	19	17	15	18	16	15	18	16	14	17	15	14	13
5	21	17	15	13	21	17	15	13	16	14	13	16	14	12	15	14	12	12
6	20	16	13	11	19	15	13	11	15	13	11	14	12	11	14	12	11	10
7	18	14	12	10	18	14	11	10	13	11	10	13	11	10	13	11	9	9
8	17	13	10	9	16	13	10	9	12	10	9	12	10	9	12	10	8	8
9	16	12	9	8	15	12	9	8	11	9	8	11	9	8	11	9	8	7
10	15	11	9	7	14	11	9	7	10	8	7	10	8	7	10	8	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6044
5°	6013
10°	5968
15°	5922
20°	5873
25°	5827
30°	5770
35°	5717
40°	5662
45°	5593
50°	5521
55°	5418
60°	5269
65°	5099
70°	4898
75°	4709
80°	4514
85°	4397



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	21.8	3.0	0.9
10°-20°	62.5	8.7	2.5
20°-30°	95.3	13.3	3.8
30°-40°	116.4	16.2	4.7
40°-50°	123.4	17.2	4.9
50°-60°	115.0	16.0	4.6
60°-70°	92.0	12.8	3.7
70°-80°	60.4	8.4	2.4
80°-90°	27.7	3.9	1.1
90°-100°	3.5	0.5	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°	179.5	25.0	7.2
0°-40°	295.9	41.2	11.8
0°-60°	534.3	74.4	21.4
0°-90°	714.5	99.5	28.6
90°-120°	3.5	0.5	0.1
90°-150°	3.5	0.5	0.1
90°-180°	3.0	0.4	0.1
0°-180°	718.0	100.0	28.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	230	
5°	229	22
15°	221	62
25°	207	95
35°	186	116
45°	160	123
55°	129	115
65°	93	92
75°	57	60
85°	25	24
90°	12	7
95°	1	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°	230.0
2.5°	229.9
5°	229.2
7.5°	227.8
10°	226.1
12.5°	223.9
15°	221.3
17.5°	218.2
20°	214.8
22.5°	210.9
25°	206.8
27.5°	202.0
30°	197.0
32.5°	191.5
35°	186.0
37.5°	179.9
40°	173.7
42.5°	166.9
45°	159.9
47.5°	152.6
50°	145.1
52.5°	137.2
55°	128.8
57.5°	120.1
60°	111.1
62.5°	102.1
65°	93.0
67.5°	83.8
70°	74.7
72.5°	65.9
75°	57.2
77.5°	48.4
80°	40.4
82.5°	32.6
85°	25.0
87.5°	17.9
90°	12.1
92.5°	5.4
95°	0.8
97.5°	0.4
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)