

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: H24055

Luminaire Tested: **H2-ICF-123**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H24055
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H2-ICF-123
Description: HALO 10" SQ. RECESSED DOWNLIGHT
WHITE REFLECTOR - FRESNEL LENS
Light Source: (2) 18WQT/4P 18 WATTS 1250 LUMENS EACH
13 mm QUAD TUBE COMPACT FLUORESCENT - 4 PIN BASE
Ballast/Driver: -

Summary

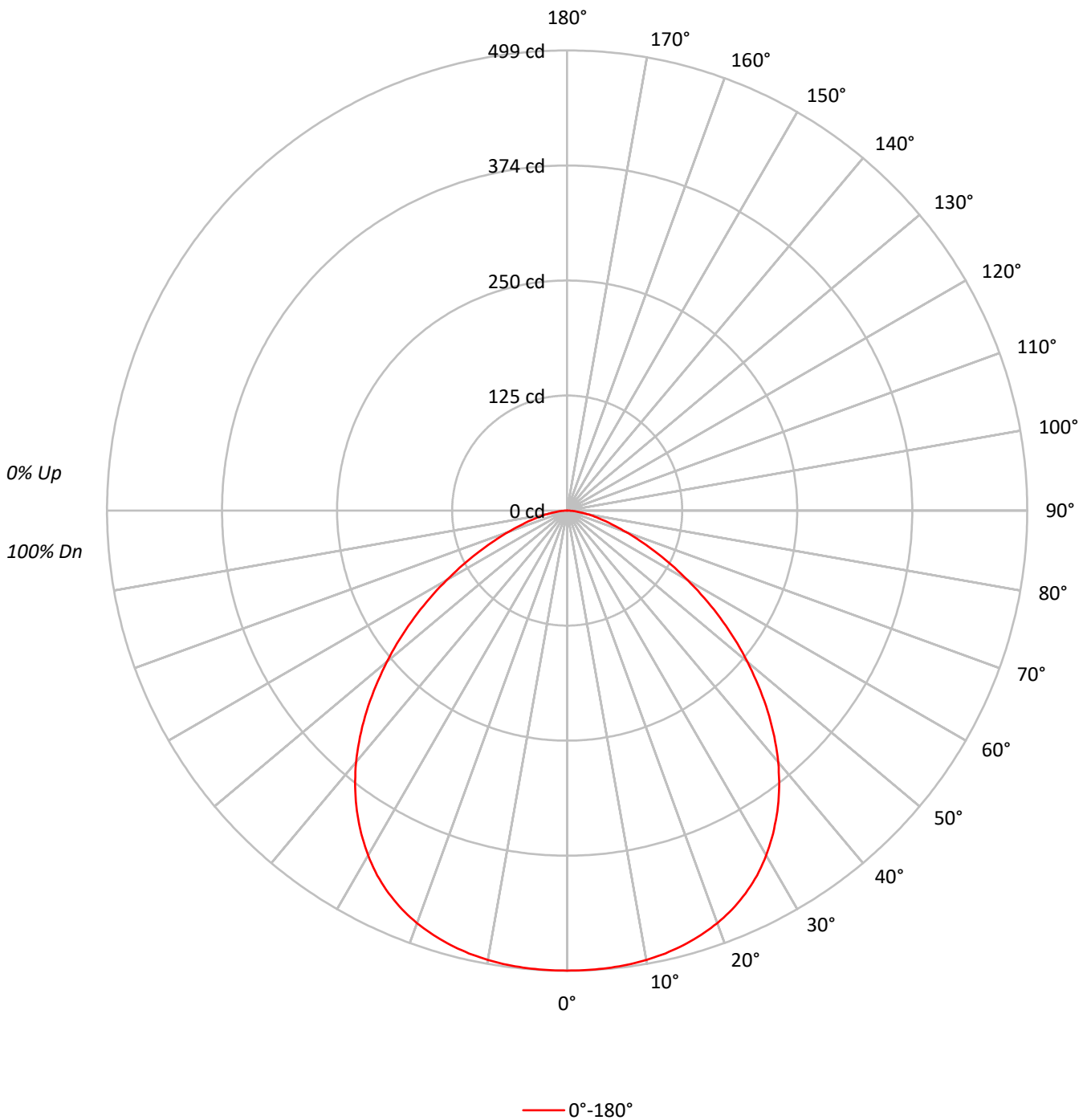
Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 1220.9 lumens
Efficiency: 48.8%
Efficacy: 32.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.33
Luminous Opening: Rectangular (W 0.8' x L: 0.8' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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	58	58	58	58	57	57	57	57	54	54	54	52	52	52	50	50	50	49
1	54	52	50	48	53	51	49	48	49	47	46	47	46	45	45	44	43	42
2	49	46	43	40	48	45	42	40	43	41	39	42	40	38	40	39	37	36
3	45	41	37	34	44	40	37	34	39	36	33	37	35	33	36	34	32	31
4	42	36	32	29	41	36	32	29	35	31	29	33	31	28	32	30	28	27
5	39	33	29	26	38	32	28	25	31	28	25	30	27	25	29	27	25	24
6	36	30	25	23	35	29	25	22	28	25	22	27	24	22	27	24	22	21
7	33	27	23	20	32	27	23	20	26	22	20	25	22	20	24	22	20	19
8	31	25	21	18	30	24	21	18	24	20	18	23	20	18	23	20	18	17
9	29	23	19	16	28	22	19	16	22	18	16	21	18	16	21	18	16	15
10	27	21	17	15	27	21	17	15	20	17	15	20	17	15	19	17	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8391
5°	8409
10°	8450
15°	8494
20°	8521
25°	8499
30°	8386
35°	8165
40°	7820
45°	7319
50°	6672
55°	5935
60°	5066
65°	4183
70°	3329
75°	2645
80°	2121
85°	1524



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	47.4	3.9	1.9
10°-20°	137.8	11.3	5.5
20°-30°	210.7	17.3	8.4
30°-40°	248.0	20.3	9.9
40°-50°	236.5	19.4	9.5
50°-60°	180.9	14.8	7.2
60°-70°	105.4	8.6	4.2
70°-80°	44.5	3.6	1.8
80°-90°	9.8	0.8	0.4
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°	395.9	32.4	15.8
0°-40°	643.9	52.7	25.8
0°-60°	1061.3	86.9	42.5
0°-90°	1220.9	100.0	48.8
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°	1220.9	100.0	48.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	499	
5°	498	47
15°	488	138
25°	458	211
35°	398	248
45°	308	237
55°	202	181
65°	105	105
75°	41	44
85°	8	9
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°	498.9
2.5°	498.7
5°	498.1
7.5°	496.9
10°	494.8
12.5°	491.9
15°	487.8
17.5°	482.6
20°	476.1
22.5°	468.1
25°	458.0
27.5°	446.1
30°	431.8
32.5°	415.5
35°	397.7
37.5°	377.7
40°	356.2
42.5°	332.5
45°	307.7
47.5°	281.3
50°	255.0
52.5°	228.9
55°	202.4
57.5°	176.3
60°	150.6
62.5°	127.3
65°	105.1
67.5°	85.3
70°	67.7
72.5°	52.8
75°	40.7
77.5°	30.6
80°	21.9
82.5°	14.2
85°	7.9
87.5°	2.9
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)