

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: H24028

Luminaire Tested: **H2-F-123**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H24028
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H2-F-123
Description: HALO 10" SQ. RECESSED DOWNLIGHT
WHITE REFLECTOR - REGRESSED FRESNEL LENS
Light Source: (2) 26WQT 26 WATTS 1800 LUMENS EACH
13mm QUAD TUBE COMPACT FLUORESCENT
Ballast/Driver: -

Summary

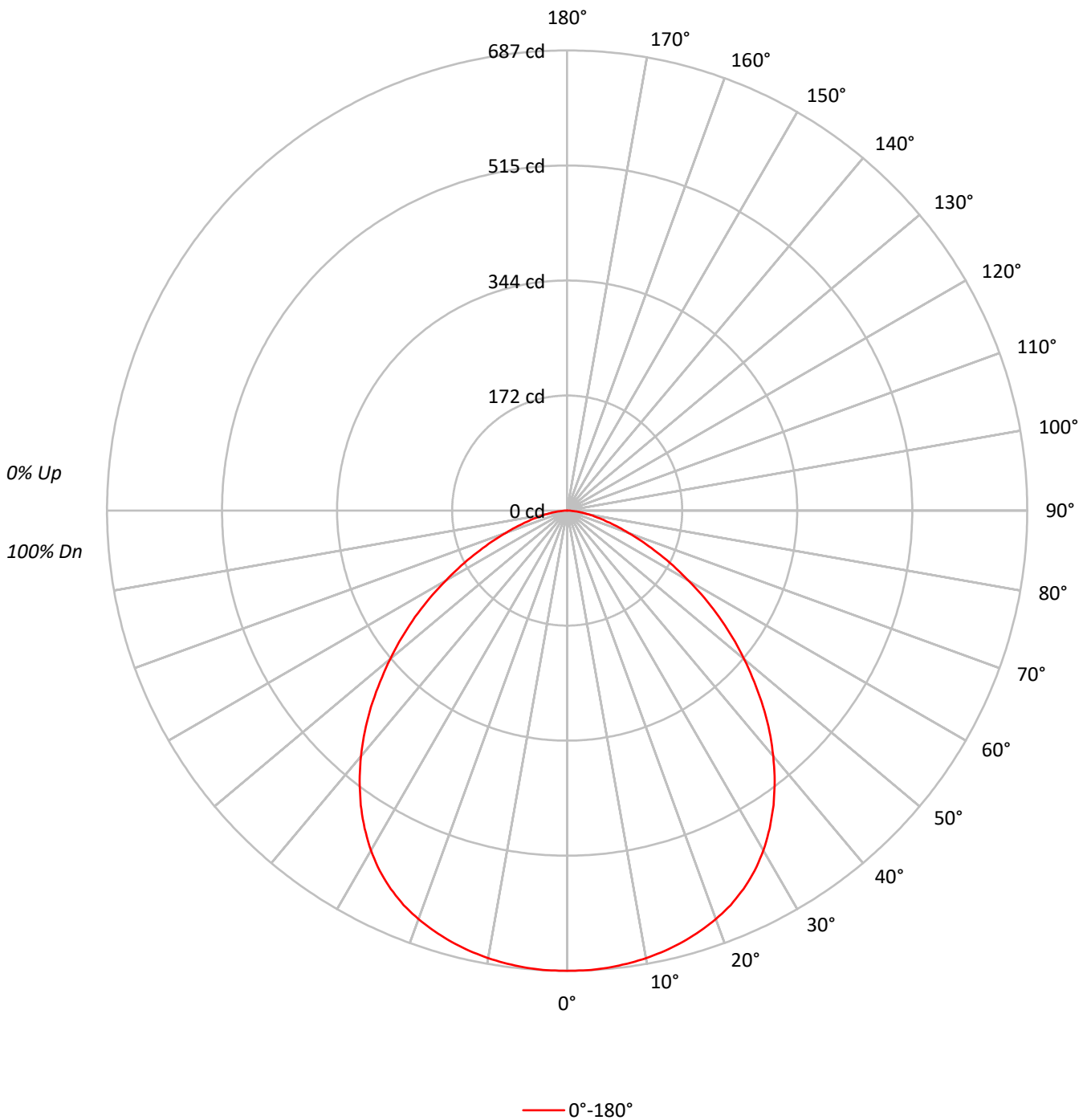
Lumens per Lamp: 1800 (2 lamps)
Luminaire Lumens: 1668.4 lumens
Efficiency: 46.3%
Efficacy: 29.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.32
Luminous Opening: Rectangular (W 0.8' x L: 0.8' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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	55	55	55	55	54	54	54	54	51	51	51	49	49	49	47	47	47	46
1	51	49	47	46	50	48	46	45	46	45	44	44	43	42	43	42	41	40
2	47	43	41	38	46	43	40	38	41	39	37	39	38	36	38	37	35	34
3	43	39	35	32	42	38	35	32	36	34	31	35	33	31	34	32	30	29
4	40	34	31	28	39	34	30	28	33	30	27	32	29	27	31	28	26	26
5	37	31	27	24	36	30	27	24	29	26	24	29	26	24	28	25	23	22
6	34	28	24	21	33	28	24	21	27	23	21	26	23	21	25	23	21	20
7	31	25	22	19	31	25	21	19	24	21	19	24	21	19	23	20	18	18
8	29	23	20	17	29	23	19	17	22	19	17	22	19	17	21	19	17	16
9	27	21	18	15	27	21	18	15	21	17	15	20	17	15	20	17	15	14
10	26	20	16	14	25	20	16	14	19	16	14	19	16	14	18	16	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11556
5°	11570
10°	11589
15°	11609
20°	11618
25°	11567
30°	11380
35°	11030
40°	10512
45°	9845
50°	9024
55°	8128
60°	7044
65°	5914
70°	4794
75°	3827
80°	3090
85°	2238



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	65.2	3.9	1.8
10°-20°	188.3	11.3	5.2
20°-30°	286.7	17.2	8.0
30°-40°	335.0	20.1	9.3
40°-50°	318.4	19.1	8.8
50°-60°	247.5	14.8	6.9
60°-70°	148.7	8.9	4.1
70°-80°	64.4	3.9	1.8
80°-90°	14.4	0.9	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°	540.1	32.4	15.0
0°-40°	875.1	52.5	24.3
0°-60°	1441.0	86.4	40.0
0°-90°	1668.4	100.0	46.3
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°	1668.4	100.0	46.3

CANDELA DISTRIBUTION:

	0°	Flux
0°	687	
5°	685	65
15°	667	188
25°	623	287
35°	537	335
45°	414	318
55°	277	247
65°	149	149
75°	59	64
85°	12	14
90°	0	1
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°	687.1
2.5°	687.0
5°	685.3
7.5°	682.5
10°	678.6
12.5°	673.3
15°	666.7
17.5°	658.6
20°	649.1
22.5°	637.6
25°	623.3
27.5°	606.3
30°	586.0
32.5°	562.7
35°	537.2
37.5°	509.0
40°	478.8
42.5°	447.2
45°	413.9
47.5°	378.9
50°	344.9
52.5°	311.3
55°	277.2
57.5°	242.9
60°	209.4
62.5°	178.2
65°	148.6
67.5°	121.7
70°	97.5
72.5°	76.9
75°	58.9
77.5°	44.1
80°	31.9
82.5°	20.9
85°	11.6
87.5°	4.4
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)