

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: H23236

Luminaire Tested: **H803-810C**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23236
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H803-810C
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR
Light Source: (2) F26DTT 26 WATTS 1800 LUMENS EACH
DOUBLE TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

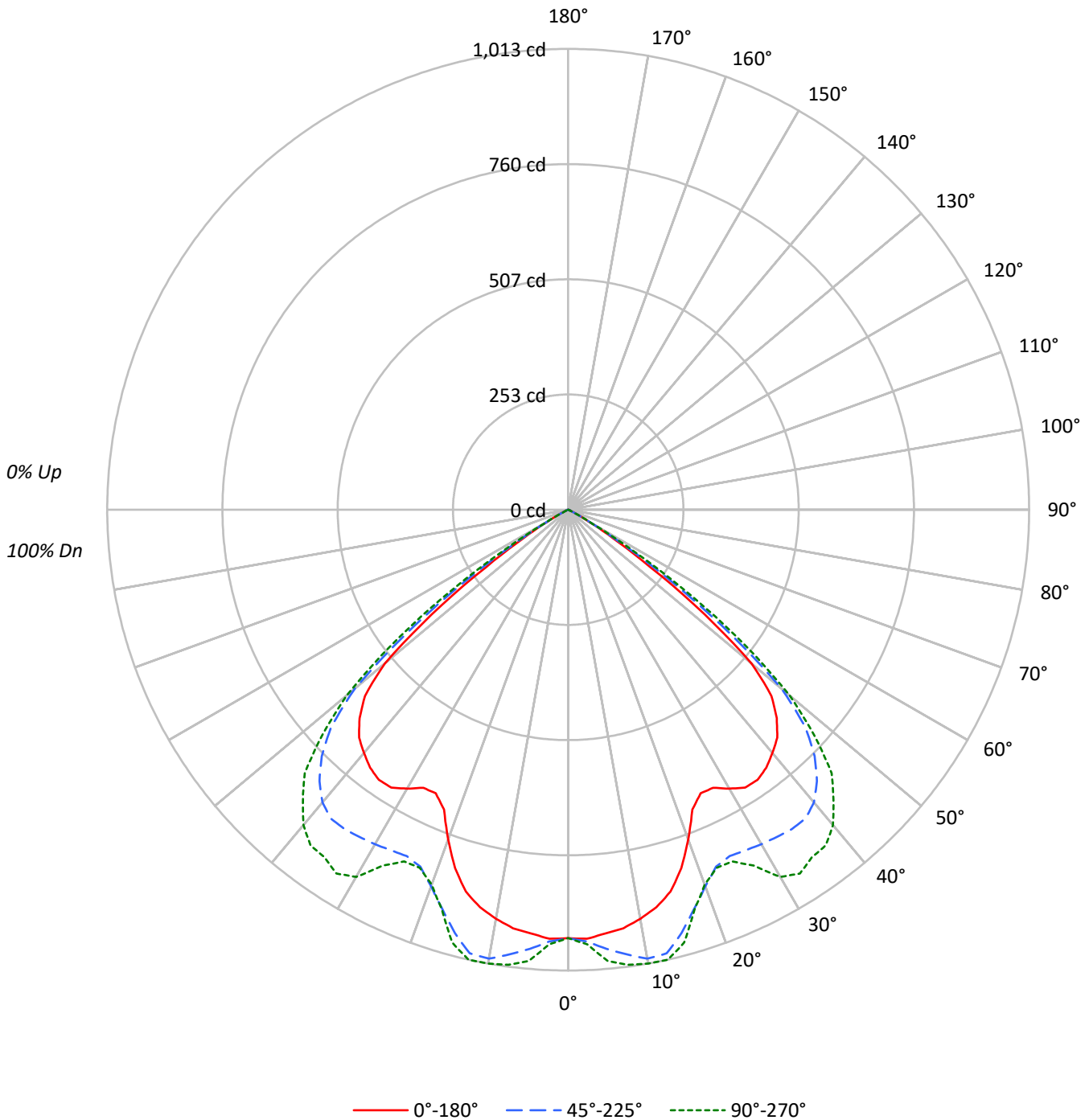
Summary

Lumens per Lamp: 1800 (2 lamps)
Luminaire Lumens: 2120.5 lumens
Efficiency: 58.9%
Efficacy: 37.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.52 / 1.5
Luminous Opening: (L: 0 ' x W: -0.59 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 57
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	70	70	70	70	68	68	68	68	65	65	65		63	63	63		60	60	60	59
1	66	64	62	60	64	63	61	59	60	59	58		58	57	56		56	55	54	53
2	61	58	55	52	60	57	54	51	55	52	50		53	51	49		51	49	48	47
3	57	52	48	45	56	51	47	45	49	46	44		48	45	43		46	44	42	41
4	53	47	43	39	51	46	42	39	45	41	39		43	40	38		42	40	38	36
5	49	42	38	35	48	42	38	34	41	37	34		40	36	34		38	36	33	32
6	45	38	34	31	44	38	34	30	37	33	30		36	33	30		35	32	30	29
7	42	35	30	27	41	35	30	27	34	30	27		33	29	27		32	29	27	26
8	39	32	28	24	38	32	27	24	31	27	24		30	27	24		30	26	24	23
9	37	29	25	22	36	29	25	22	28	25	22		28	24	22		27	24	22	21
10	34	27	23	20	34	27	23	20	26	23	20		26	22	20		25	22	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	92.7	4.4	2.6
10°-20°	263.5	12.4	7.3
20°-30°	382.7	18.0	10.6
30°-40°	531.1	25.0	14.8
40°-50°	568.9	26.8	15.8
50°-60°	265.7	12.5	7.4
60°-70°	14.4	0.7	0.4
70°-80°	1.5	0.1	0.0
80°-90°	0.1	0.0	0.0
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°	738.8	34.8	20.5
0°-40°	1270.0	59.9	35.3
0°-60°	2104.6	99.2	58.5
0°-90°	2120.5	100.0	58.9
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°	2120.5	100.0	58.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	935	943	969	989	996	89
15°	869	924	963	982	985	241
25°	688	787	840	856	853	327
35°	725	800	857	911	933	450
45°	648	706	766	805	819	491
55°	220	255	288	313	335	221
65°	6	7	5	5	5	14
75°	1	1	1	1	1	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	942	942	942	942	942
2.5°	944	944	950	952	956
5°	935	943	969	989	996
7.5°	928	945	986	1009	1009
10°	913	949	1002	1018	1013
12.5°	895	945	999	1017	1013
15°	869	924	963	982	985
17.5°	826	878	920	929	922
20°	771	825	881	885	877
22.5°	713	793	849	852	852
25°	688	787	840	856	853
27.5°	689	789	844	882	882
30°	708	797	849	914	932
32.5°	724	806	853	921	948
35°	725	800	857	911	933
37.5°	715	788	856	911	930
40°	698	774	840	890	905
42.5°	680	747	809	850	863
45°	648	706	766	805	819
47.5°	606	657	706	731	733
50°	526	570	612	633	635
52.5°	378	417	454	476	494
55°	220	255	288	313	335
57.5°	115	133	149	162	176
60°	54	61	60	61	64
62.5°	21	24	19	14	13
65°	6	7	5	5	5
67.5°	4	4	4	3	3
70°	3	3	3	2	2
72.5°	2	2	2	2	2
75°	1	1	1	1	1
77.5°	1	1	1	1	1
80°	1	1	1	0	0
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)