

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: H35037

Luminaire Tested: **H801-810WW**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H35037
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H801-810WW
Description: HALO PL RECESSED DOWNLIGHT
HORIZONTAL LAMPS WITH TUBES HORIZONTAL
Light Source: (2) 28W/QT4 28 WATTS 1600 LUMENS EACH
15mm QUAD TUBE COMPACT FLUORESCENT
G24 D-2 BASE
Ballast/Driver: -

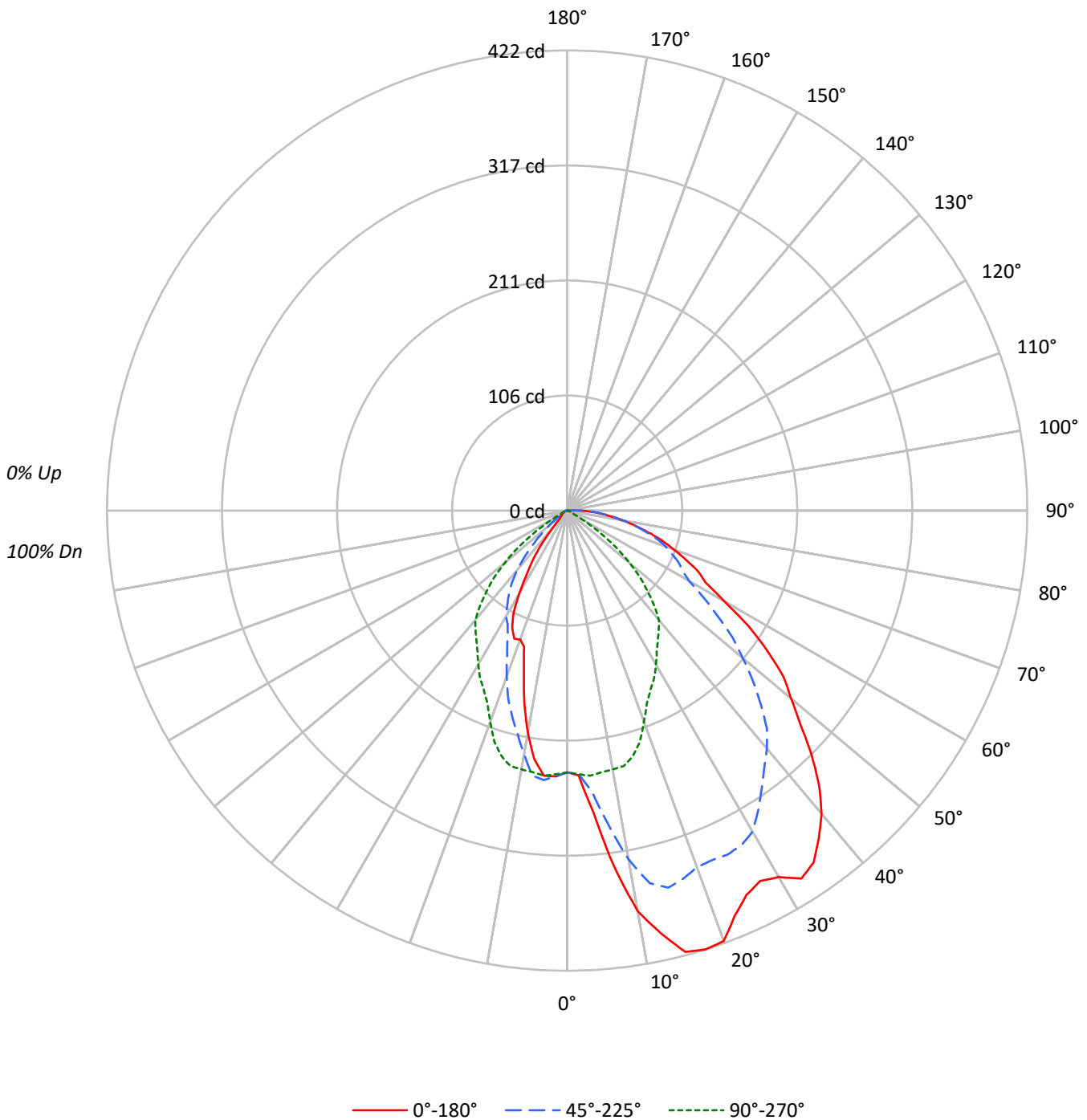
Summary

Lumens per Lamp: 1600 (2 lamps)
Luminaire Lumens: 605.0 lumens
Efficiency: 18.9%
Efficacy: 8.6 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.05 / 1.36
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 70
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

TEST NUMBER: H35037
CATALOG NUMBER: H801-810WW

Luminous Intensity Polar Plot





TEST NUMBER: H35037
 CATALOG NUMBER: H801-810WW

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	23	23	23	23	22	22	22	22	21	21	21	20	20	20	19	19	19	19
1	21	20	19	18	20	19	19	18	19	18	18	18	17	17	17	17	16	16
2	19	18	16	15	19	17	16	15	17	16	15	16	15	14	15	15	14	14
3	17	16	14	13	17	15	14	13	15	14	13	14	13	12	14	13	12	12
4	16	14	12	11	16	14	12	11	13	12	11	13	12	11	12	12	11	10
5	15	13	11	10	15	12	11	10	12	11	10	12	11	10	11	10	10	9
6	14	11	10	9	14	11	10	9	11	10	9	11	9	9	10	9	8	8
7	13	10	9	8	13	10	9	8	10	9	8	10	9	8	10	8	8	7
8	12	10	8	7	12	9	8	7	9	8	7	9	8	7	9	8	7	7
9	11	9	7	6	11	9	7	6	9	7	6	8	7	6	8	7	6	6
10	11	8	7	6	10	8	7	6	8	7	6	8	7	6	8	7	6	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: H35037
 CATALOG NUMBER: H801-810WW

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	24.7	4.1	0.8
10°-20°	74.8	12.4	2.3
20°-30°	105.9	17.5	3.3
30°-40°	121.3	20.1	3.8
40°-50°	108.2	17.9	3.4
50°-60°	74.7	12.4	2.3
60°-70°	48.2	8.0	1.5
70°-80°	32.3	5.3	1.0
80°-90°	14.0	2.3	0.4
90°-100°	0.8	0.1	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°	205.4	34.0	6.4
0°-40°	326.8	54.0	10.2
0°-60°	509.7	84.3	15.9
0°-90°	604.2	99.9	18.9
90°-120°	0.8	0.1	0.0
90°-150°	0.8	0.1	0.0
90°-180°	1.0	0.2	0.0
0°-180°	605.0	100.0	18.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	240	240	240	240	240	
5°	278	258	244	248	244	30
15°	419	358	233	195	153	117
25°	389	348	181	129	119	182
35°	394	311	145	93	54	243
45°	317	251	104	45	9	244
55°	224	168	43	8	5	198
65°	133	113	5	3	3	131
75°	77	74	2	2	2	82
85°	30	32	1	1	0	29
90°	13	15	1	0	0	6
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



TEST NUMBER: H35037
 CATALOG NUMBER: H801-810WW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	240	240	240	240	240	240	240	240	240
2.5°	243	243	242	241	242	243	244	244	244
5°	278	273	258	243	244	249	248	245	244
7.5°	329	317	291	251	242	250	245	233	230
10°	373	358	325	268	241	244	227	212	207
12.5°	397	385	350	282	240	236	210	189	181
15°	419	401	358	286	233	224	195	167	153
17.5°	422	408	354	280	222	209	180	144	131
20°	420	403	348	270	206	194	162	129	126
22.5°	402	395	347	260	191	182	144	122	127
25°	389	388	348	251	181	172	129	113	119
27.5°	383	374	346	245	173	161	118	104	107
30°	388	368	340	243	163	151	112	97	88
32.5°	400	369	326	236	153	141	102	84	68
35°	394	369	311	224	145	129	93	68	54
37.5°	379	362	297	212	138	115	83	51	36
40°	363	346	285	199	131	101	71	34	17
42.5°	342	328	271	185	118	89	58	20	10
45°	317	307	251	170	104	76	45	10	9
47.5°	290	279	231	152	91	62	33	8	8
50°	268	253	210	133	75	49	23	7	7
52.5°	250	228	191	113	59	37	14	6	6
55°	224	202	168	97	43	27	8	5	5
57.5°	197	176	148	83	27	17	5	5	5
60°	166	154	129	72	14	9	5	4	4
62.5°	143	136	119	64	7	5	4	4	3
65°	133	131	113	64	5	4	3	3	3
67.5°	118	119	104	61	4	3	3	3	3
70°	104	107	96	56	3	3	3	2	2
72.5°	91	94	86	49	3	3	2	2	2
75°	77	80	74	42	2	2	2	2	2
77.5°	64	66	63	35	2	2	2	2	2
80°	51	54	52	29	2	1	1	1	1
82.5°	40	42	42	24	1	1	1	1	1
85°	30	32	32	18	1	1	1	0	0
87.5°	21	22	23	13	1	1	1	0	0
90°	13	14	15	8	1	1	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



TEST NUMBER: H35037
 CATALOG NUMBER: H801-810WW

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)