

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: H35023

Luminaire Tested: **H801-800P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H35023
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H801-800P
Description: HALO PL RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH ALBALITE GLASS LENS
HORIZONTAL LAMP SETTING
Light Source: (2) 28W/QT4 28 WATTS 1600 LUMENS EACH
15mm QUAD TUBE COMPACT FLUORESCENT
GX32 D-3 BASE
Ballast/Driver: -

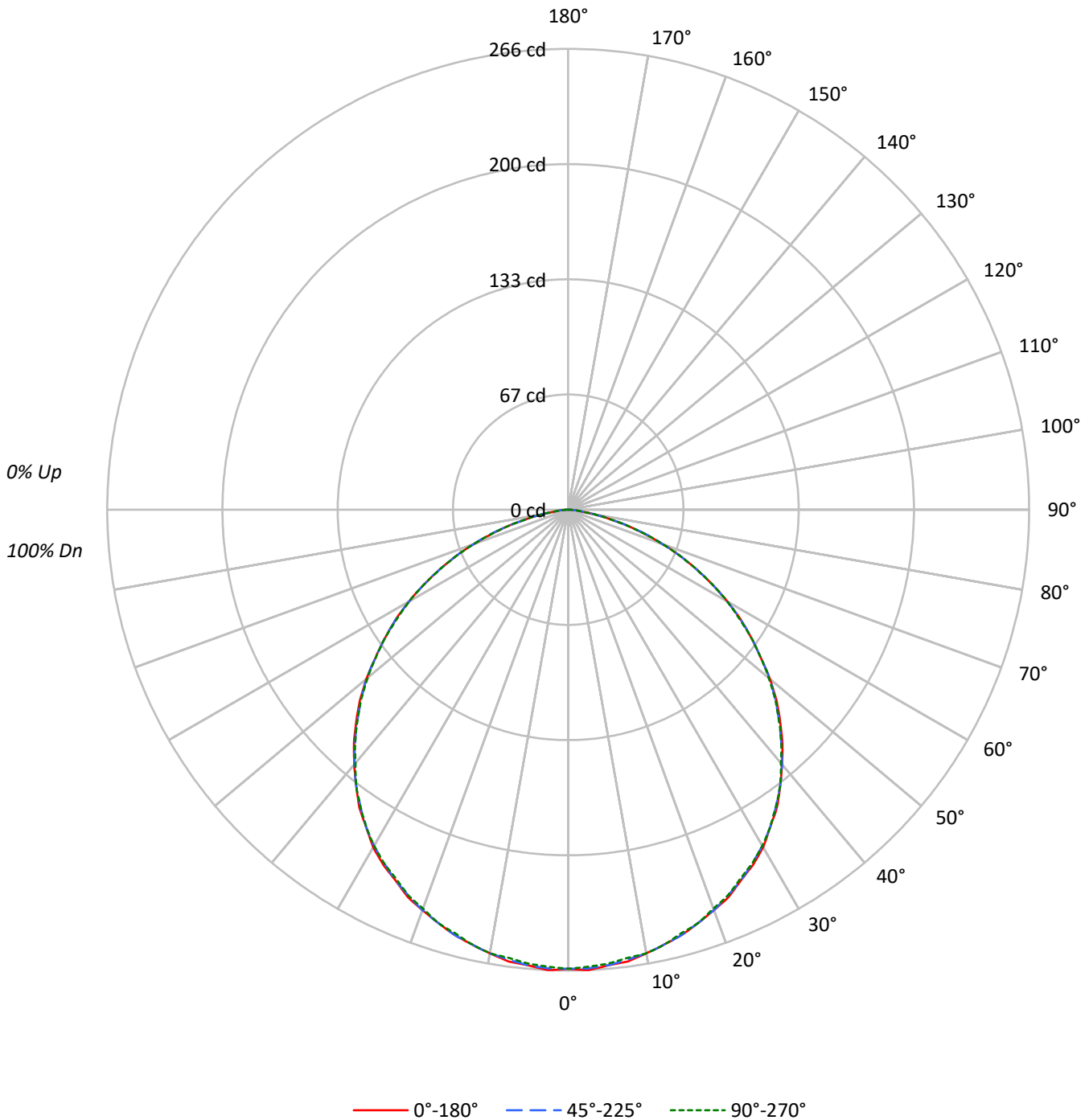
Summary

Lumens per Lamp: 1600 (2 lamps)
Luminaire Lumens: 709.0 lumens
Efficiency: 22.2%
Efficacy: 10.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.36
Luminous Opening: (L: 0 ' x W: -0.53 ' x H: 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: H35023
CATALOG NUMBER: H801-800P

Luminous Intensity Polar Plot





TEST NUMBER: H35023
 CATALOG NUMBER: H801-800P

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	26	26	26	26	26	26	26	26	25	25	25	24	24	24	23	23	23	22	22	22
1	24	23	22	22	24	23	22	21	22	21	21	21	20	20	20	20	19	19	19	19
2	22	20	19	18	22	20	19	18	19	18	17	18	18	17	18	17	16	16	16	16
3	20	18	16	15	20	18	16	15	17	16	14	16	15	14	16	15	14	13	13	13
4	19	16	14	13	18	16	14	13	15	14	12	15	13	12	14	13	12	12	12	12
5	17	14	12	11	17	14	12	11	14	12	11	13	12	11	13	11	10	10	10	10
6	16	13	11	10	15	13	11	9	12	11	9	12	10	9	12	10	9	9	9	9
7	15	12	10	8	14	11	10	8	11	10	8	11	9	8	11	9	8	8	8	8
8	14	11	9	8	13	11	9	7	10	9	7	10	8	7	10	8	7	7	7	7
9	13	10	8	7	12	10	8	7	9	8	7	9	8	7	9	8	7	6	6	6
10	12	9	7	6	12	9	7	6	9	7	6	8	7	6	8	7	6	6	6	6

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°			



TEST NUMBER: H35023
 CATALOG NUMBER: H801-800P

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.1	3.5	0.8
10°-20°	71.6	10.1	2.2
20°-30°	108.8	15.3	3.4
30°-40°	130.8	18.5	4.1
40°-50°	132.9	18.8	4.2
50°-60°	115.3	16.3	3.6
60°-70°	81.1	11.4	2.5
70°-80°	37.3	5.3	1.2
80°-90°	6.1	0.9	0.2
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°	205.5	29.0	6.4
0°-40°	336.3	47.4	10.5
0°-60°	584.5	82.4	18.3
0°-90°	709.0	100.0	22.2
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°	709.0	100.0	22.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	265	265	265	265	265	
5°	264	264	264	264	263	25
15°	254	254	254	253	253	72
25°	236	237	236	236	235	109
35°	210	210	209	209	209	131
45°	173	173	172	172	172	133
55°	129	129	129	129	129	115
65°	82	82	82	82	82	81
75°	35	35	35	35	35	37
85°	5	5	5	5	5	6
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



TEST NUMBER: H35023
 CATALOG NUMBER: H801-800P

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	265	265	265	265	265
2.5°	266	265	265	265	264
5°	264	264	264	264	263
7.5°	263	262	262	262	261
10°	260	260	260	259	260
12.5°	257	257	257	257	257
15°	254	254	254	253	253
17.5°	250	250	250	250	250
20°	246	246	246	245	245
22.5°	242	242	241	241	241
25°	236	237	236	236	235
27.5°	231	231	230	230	230
30°	225	225	224	224	224
32.5°	217	217	217	217	217
35°	210	210	209	209	209
37.5°	201	201	201	201	201
40°	192	192	192	192	191
42.5°	183	183	182	182	182
45°	173	173	172	172	172
47.5°	163	163	162	162	162
50°	152	152	152	151	151
52.5°	140	141	140	140	140
55°	129	129	129	129	129
57.5°	118	118	118	117	117
60°	106	106	106	106	106
62.5°	94	94	94	94	94
65°	82	82	82	82	82
67.5°	70	70	70	70	70
70°	58	58	58	58	58
72.5°	46	46	47	46	46
75°	35	35	35	35	35
77.5°	24	24	24	24	24
80°	15	15	15	15	15
82.5°	7	8	8	8	8
85°	5	5	5	5	5
87.5°	2	2	2	2	3
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



TEST NUMBER: H35023
CATALOG NUMBER: H801-800P

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)