

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: H35022

Luminaire Tested: **H801-801P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H35022
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H801-801P
Description: HALO PL RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH DROP OPAL GLASS LENS
HORIZONTAL LAMP SETTING
Light Source: (2) 28/QT4 28 WATTS 1600 LUMENS EACH
15mm QUAD TUBE COMPACT FLUORESCENT
GX32 D-3 BASE
Ballast/Driver: -

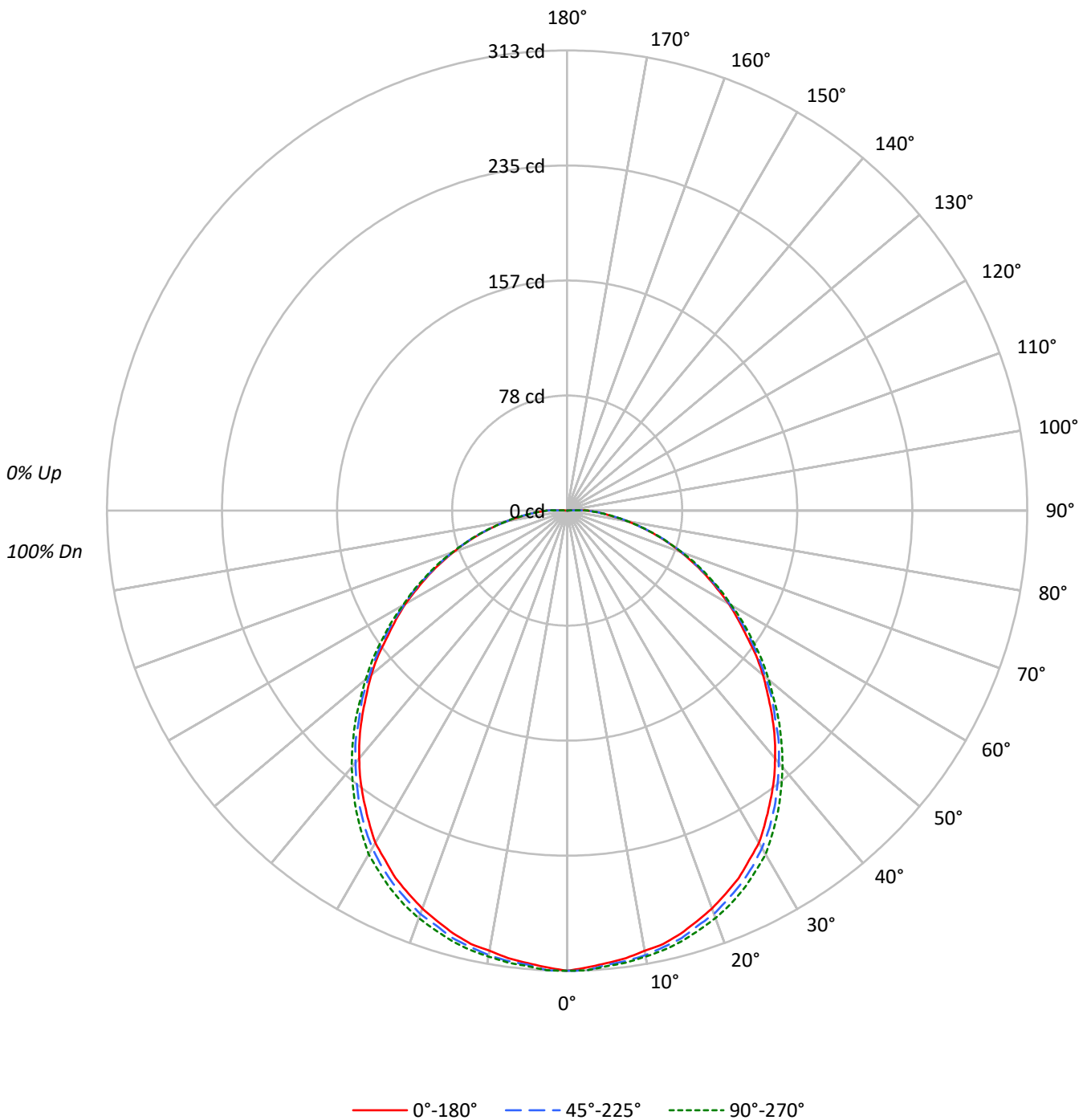
Summary

Lumens per Lamp: 1600 (2 lamps)
Luminaire Lumens: 887.9 lumens
Efficiency: 27.7%
Efficacy: 12.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.35
Luminous Opening: (L: 0' x W: -0.46' x H: 0.04'
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): 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: H35022
CATALOG NUMBER: H801-801P

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	33	33	33	33	32	32	32	32	31	31	31	29	29	29	28	28	28	28
1	30	29	27	26	29	28	27	26	27	26	25	26	25	24	25	24	23	23
2	27	25	23	21	27	24	23	21	23	22	21	22	21	20	22	21	20	19
3	25	22	20	18	24	21	19	18	21	19	17	20	18	17	19	18	17	16
4	23	19	17	15	22	19	17	15	18	16	15	18	16	14	17	16	14	14
5	21	17	15	13	20	17	15	13	16	14	13	16	14	13	15	14	12	12
6	19	16	13	11	19	15	13	11	15	13	11	14	12	11	14	12	11	10
7	18	14	12	10	17	14	12	10	13	11	10	13	11	10	13	11	10	9
8	17	13	11	9	16	13	10	9	12	10	9	12	10	9	12	10	9	8
9	16	12	10	8	15	12	10	8	11	9	8	11	9	8	11	9	8	7
10	15	11	9	7	14	11	9	7	11	9	7	10	8	7	10	8	7	7

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: H35022
 CATALOG NUMBER: H801-801P

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	29.5	3.3	0.9
10°-20°	84.8	9.6	2.7
20°-30°	128.9	14.5	4.0
30°-40°	153.6	17.3	4.8
40°-50°	154.9	17.4	4.8
50°-60°	136.0	15.3	4.2
60°-70°	104.3	11.7	3.3
70°-80°	65.3	7.4	2.0
80°-90°	28.5	3.2	0.9
90°-100°	1.9	0.2	0.1
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°	243.3	27.4	7.6
0°-40°	396.9	44.7	12.4
0°-60°	687.8	77.5	21.5
0°-90°	885.9	99.8	27.7
90°-120°	1.9	0.2	0.1
90°-150°	1.9	0.2	0.1
90°-180°	2.0	0.2	0.1
0°-180°	887.9	100.0	27.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	313	313	313	313	313	
5°	309	310	310	311	311	29
15°	298	299	301	303	303	84
25°	276	277	280	283	284	127
35°	241	243	246	249	250	151
45°	197	198	200	204	204	152
55°	149	150	152	154	154	134
65°	104	105	105	106	106	103
75°	61	62	62	62	62	65
85°	25	25	25	25	25	24
90°	14	14	14	14	14	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: H35022
 CATALOG NUMBER: H801-801P

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	313	313	313	313	313
2.5°	311	312	313	313	313
5°	309	310	310	311	311
7.5°	307	308	309	310	310
10°	304	305	307	308	308
12.5°	302	302	304	306	306
15°	298	299	301	303	303
17.5°	293	294	296	299	299
20°	288	289	292	294	295
22.5°	282	283	286	289	290
25°	276	277	280	283	284
27.5°	268	270	273	276	277
30°	261	262	265	268	270
32.5°	251	253	256	259	260
35°	241	243	246	249	250
37.5°	231	232	235	238	239
40°	220	221	224	227	228
42.5°	209	210	213	216	216
45°	197	198	200	204	204
47.5°	185	188	189	191	191
50°	174	174	176	179	179
52.5°	162	162	164	166	167
55°	149	150	152	154	154
57.5°	138	139	140	141	142
60°	127	127	128	129	129
62.5°	115	116	117	118	118
65°	104	105	105	106	106
67.5°	93	93	94	95	95
70°	82	82	83	83	83
72.5°	72	72	72	73	72
75°	61	62	62	62	62
77.5°	51	51	51	52	51
80°	42	42	42	42	42
82.5°	32	32	33	33	33
85°	25	25	25	25	25
87.5°	19	19	19	19	19
90°	14	14	14	14	14
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: H35022
CATALOG NUMBER: H801-801P

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)