

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: H35024

Luminaire Tested: **H801-803P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H35024
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H801-803P
Description: HALO PL RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH FRESNEL 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: -

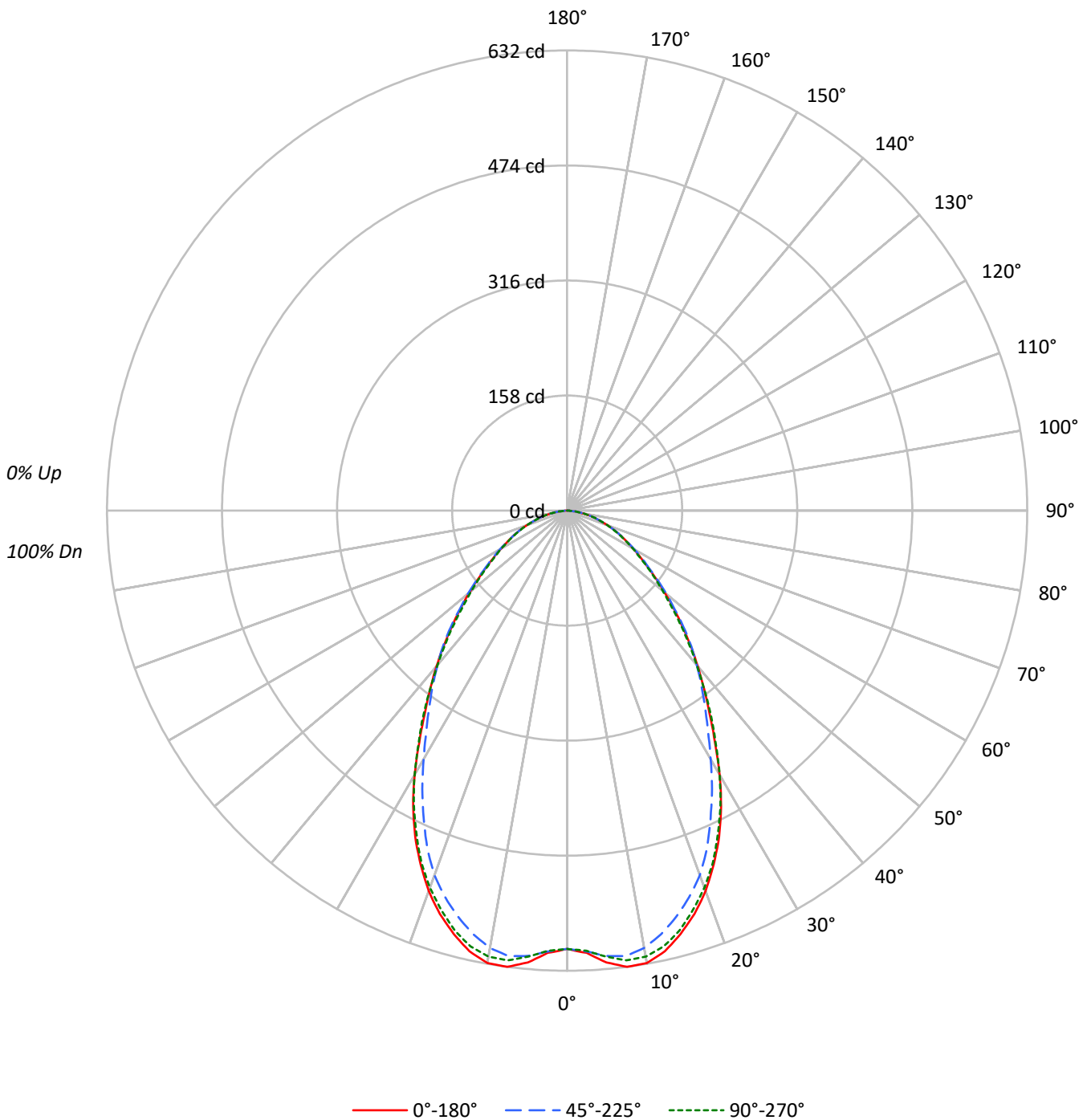
Summary

Lumens per Lamp: 1600 (2 lamps)
Luminaire Lumens: 1089.5 lumens
Efficiency: 34.0%
Efficacy: 15.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.09
Luminous Opening: (L: 0' x W: -0.53' x H: 0'
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

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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	41	41	41	41	40	40	40	40	38	38	38	36	36	36	35	35	35	34
1	38	36	35	34	37	36	34	33	34	33	32	33	32	31	32	31	30	30
2	35	32	30	29	34	32	30	28	31	29	28	30	28	27	29	28	27	26
3	32	29	27	25	31	29	26	25	28	26	24	27	25	24	26	25	23	23
4	30	26	24	22	29	26	23	22	25	23	21	24	22	21	24	22	21	20
5	28	24	21	19	27	24	21	19	23	21	19	22	20	19	22	20	19	18
6	26	22	19	17	25	22	19	17	21	19	17	20	18	17	20	18	17	16
7	24	20	17	16	24	20	17	15	19	17	15	19	17	15	18	17	15	15
8	23	19	16	14	22	18	16	14	18	16	14	17	15	14	17	15	14	13
9	21	17	15	13	21	17	15	13	17	14	13	16	14	13	16	14	13	12
10	20	16	14	12	20	16	13	12	15	13	12	15	13	12	15	13	12	11

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°	58.9	5.4	1.8
10°-20°	165.4	15.2	5.2
20°-30°	220.6	20.2	6.9
30°-40°	213.3	19.6	6.7
40°-50°	174.7	16.0	5.5
50°-60°	123.8	11.4	3.9
60°-70°	80.7	7.4	2.5
70°-80°	42.7	3.9	1.3
80°-90°	9.3	0.9	0.3
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°	444.9	40.8	13.9
0°-40°	658.2	60.4	20.6
0°-60°	956.7	87.8	29.9
0°-90°	1089.4	100.0	34.0
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°	1089.5	100.0	34.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	623	619	614	614	615	60
15°	602	596	578	587	597	169
25°	494	488	466	482	490	226
35°	341	345	330	342	345	215
45°	223	230	226	228	219	173
55°	135	139	137	137	133	122
65°	81	82	81	81	80	80
75°	40	40	40	41	40	42
85°	5	5	5	5	5	9
90°	0	0	0	1	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°	602	602	602	602	602
2.5°	608	607	606	606	605
5°	623	619	614	614	615
7.5°	632	626	617	619	623
10°	631	623	610	616	622
12.5°	620	611	596	603	613
15°	602	596	578	587	597
17.5°	581	577	557	568	575
20°	556	552	533	544	551
22.5°	526	522	502	515	523
25°	494	488	466	482	490
27.5°	458	452	431	447	456
30°	419	414	394	410	419
32.5°	378	379	360	375	380
35°	341	345	330	342	345
37.5°	309	316	303	312	309
40°	279	286	277	282	277
42.5°	250	257	252	255	247
45°	223	230	226	228	219
47.5°	198	203	200	201	193
50°	175	179	178	178	171
52.5°	154	158	156	157	151
55°	135	139	137	137	133
57.5°	119	122	121	121	117
60°	105	107	106	106	104
62.5°	92	93	93	93	91
65°	81	82	81	81	80
67.5°	70	70	70	70	69
70°	59	60	59	60	59
72.5°	49	50	49	50	49
75°	40	40	40	41	40
77.5°	30	31	31	32	31
80°	22	23	22	23	23
82.5°	14	15	15	15	15
85°	5	5	5	5	5
87.5°	3	3	3	3	3
90°	0	0	0	1	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)