

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: H35020

Luminaire Tested: **H801-810C**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H35020
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H801-810C
Description: HALO PL RECESSED OPEN DOWNLIGHT
CLEAR SPECULAR REFLECTOR #810-C
HORIZONTAL LAMP SETTING
Light Source: (2) 28W/QT4 28 WATTS 1600 LUMENS EACH
15mm QUAD TUBE COMPACT FLUORESCENT
GX32 D-3 BASE
Ballast/Driver: -

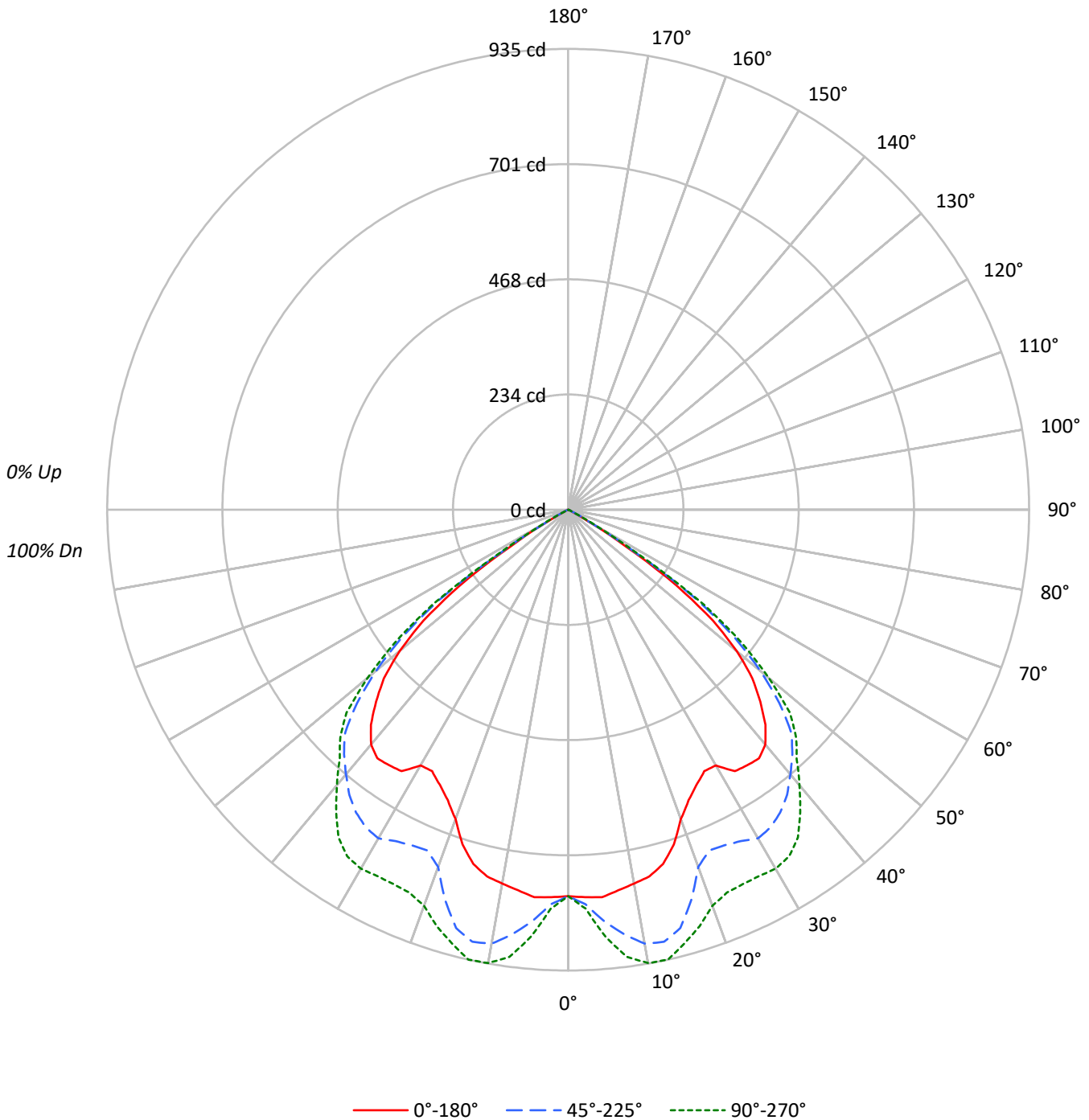
Summary

Lumens per Lamp: 1600 (2 lamps)
Luminaire Lumens: 1861.1 lumens
Efficiency: 58.2%
Efficacy: 26.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.52 / 1.49
Luminous Opening: (L: 0 ' x W: -0.58 ' 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

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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	69	69	69	69	68	68	68	68	65	65	65	62	62	62	59	59	59	58		
1	65	63	61	60	64	62	60	59	59	58	57	57	56	55	55	54	53	52		
2	61	57	54	51	59	56	53	51	54	52	50	52	50	48	50	49	47	46		
3	56	51	47	44	55	50	47	44	49	46	43	47	45	43	46	44	42	41		
4	52	46	42	39	51	46	42	39	44	41	38	43	40	38	42	39	37	36		
5	48	42	37	34	47	41	37	34	40	36	34	39	36	33	38	35	33	32		
6	45	38	33	30	44	37	33	30	36	33	30	36	32	30	35	32	29	28		
7	42	35	30	27	41	34	30	27	33	29	27	33	29	26	32	29	26	25		
8	39	32	27	24	38	31	27	24	31	27	24	30	26	24	29	26	24	23		
9	36	29	25	22	36	29	25	22	28	24	22	28	24	22	27	24	21	21		
10	34	27	23	20	33	27	23	20	26	22	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°	80.8	4.3	2.5
10°-20°	238.0	12.8	7.4
20°-30°	346.1	18.6	10.8
30°-40°	456.0	24.5	14.2
40°-50°	469.4	25.2	14.7
50°-60°	257.0	13.8	8.0
60°-70°	12.8	0.7	0.4
70°-80°	1.1	0.1	0.0
80°-90°	0.0	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°	664.9	35.7	20.8
0°-40°	1120.8	60.2	35.0
0°-60°	1847.2	99.3	57.7
0°-90°	1861.1	100.0	58.2
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°	1861.1	100.0	58.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	789	804	838	862	870	75
15°	744	822	879	901	911	207
25°	616	694	751	798	838	287
35°	633	676	750	781	812	394
45°	551	592	640	643	654	421
55°	269	289	319	331	337	226
65°	4	5	4	3	3	10
75°	1	1	1	1	1	1
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°	784	784	784	784	784
2.5°	787	794	801	807	810
5°	789	804	838	862	870
7.5°	779	820	869	903	915
10°	770	833	894	924	934
12.5°	762	831	898	922	935
15°	744	822	879	901	911
17.5°	712	792	830	866	886
20°	668	742	771	821	855
22.5°	638	705	748	802	841
25°	616	694	751	798	838
27.5°	598	691	758	798	838
30°	599	696	770	805	841
32.5°	629	687	764	798	834
35°	633	676	750	781	812
37.5°	636	666	729	756	773
40°	622	652	701	714	730
42.5°	592	630	673	676	686
45°	551	592	640	643	654
47.5°	507	539	581	595	610
50°	446	471	509	526	531
52.5°	370	389	424	436	444
55°	269	289	319	331	337
57.5°	138	152	164	172	176
60°	44	56	55	62	68
62.5°	11	21	17	15	15
65°	4	5	4	3	3
67.5°	3	3	3	2	2
70°	2	2	2	2	2
72.5°	1	1	1	1	1
75°	1	1	1	1	1
77.5°	1	1	1	1	1
80°	0	0	0	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)