

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: H35021

Luminaire Tested: **H801-810BA**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H35021
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H801-810BA
Description: HALO PL RECESSED DOWNLIGHT
BLACK COILEX BAFFLE #810-BA
HORIZONTAL LAMP SETTING
Light Source: (2) 28W/QT4 28 WATTS 1600 LUMENS EACH
15mm QUAD TUBE COMPACT FLUORESCENT
GX32 D-3 BASE
Ballast/Driver: -

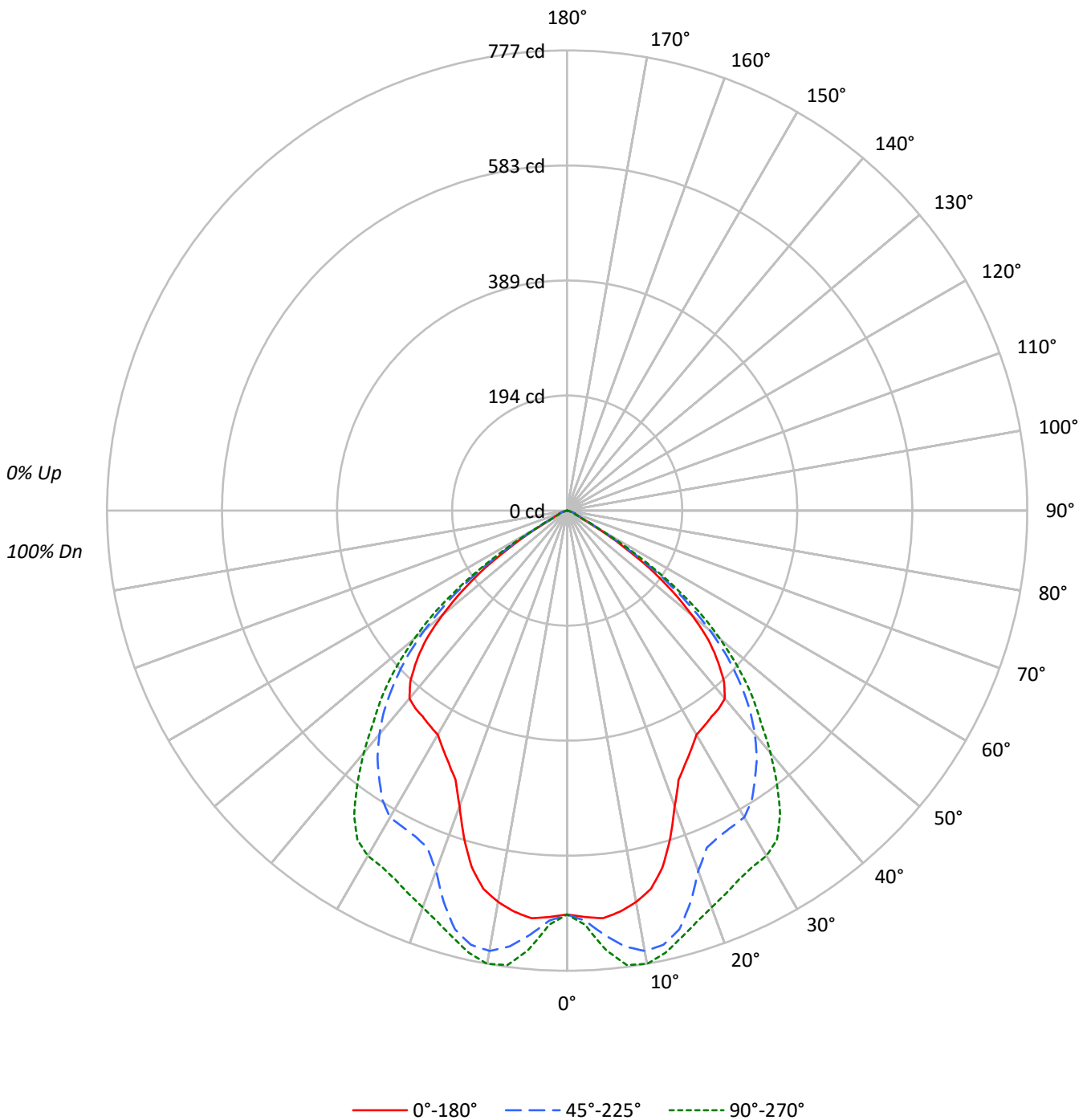
Summary

Lumens per Lamp: 1600 (2 lamps)
Luminaire Lumens: 1385.1 lumens
Efficiency: 43.3%
Efficacy: 19.8 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 1.41 / 1.34
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	52	52	52	52	50	50	50	50	48	48	48	46	46	46	44	44	44	43	43	43
1	48	47	46	44	47	46	45	44	44	43	42	43	42	41	41	40	40	39	39	39
2	45	42	40	38	44	42	40	38	40	38	37	39	37	36	38	36	35	35	35	35
3	42	38	36	33	41	38	35	33	36	34	32	35	34	32	34	33	31	31	31	31
4	39	35	32	29	38	34	31	29	33	31	29	32	30	28	31	30	28	27	27	27
5	36	32	28	26	35	31	28	26	30	28	25	29	27	25	29	27	25	24	24	24
6	34	29	25	23	33	28	25	23	28	25	23	27	24	23	26	24	22	22	22	22
7	31	26	23	21	31	26	23	21	25	23	20	25	22	20	24	22	20	19	19	19
8	29	24	21	19	29	24	21	19	23	21	19	23	20	18	22	20	18	18	18	18
9	28	22	19	17	27	22	19	17	22	19	17	21	19	17	21	18	17	16	16	16
10	26	21	18	16	25	20	17	15	20	17	15	20	17	15	19	17	15	15	15	15

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°	69.1	5.0	2.2
10°-20°	197.3	14.2	6.2
20°-30°	277.4	20.0	8.7
30°-40°	336.8	24.3	10.5
40°-50°	307.2	22.2	9.6
50°-60°	167.3	12.1	5.2
60°-70°	24.2	1.8	0.8
70°-80°	5.2	0.4	0.2
80°-90°	0.6	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°	543.8	39.3	17.0
0°-40°	880.6	63.6	27.5
0°-60°	1355.1	97.8	42.3
0°-90°	1385.1	100.0	43.3
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°	1385.1	100.0	43.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	691	700	719	734	744	65
15°	623	678	732	745	746	172
25°	472	544	607	654	687	219
35°	425	492	553	599	627	267
45°	360	368	414	427	441	274
55°	169	177	195	206	212	148
65°	18	18	17	16	15	23
75°	3	3	3	3	3	6
85°	1	1	1	0	0	1
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°	682	682	682	682	682
2.5°	687	688	693	698	700
5°	691	700	719	734	744
7.5°	683	705	742	760	774
10°	671	703	755	771	777
12.5°	654	696	751	760	765
15°	623	678	732	745	746
17.5°	579	648	693	717	728
20°	531	601	647	683	713
22.5°	492	566	616	665	700
25°	472	544	607	654	687
27.5°	454	533	602	646	678
30°	437	529	598	642	673
32.5°	431	515	580	626	659
35°	425	492	553	599	627
37.5°	421	465	526	562	582
40°	414	433	493	517	534
42.5°	392	402	457	470	484
45°	360	368	414	427	441
47.5°	324	328	368	378	391
50°	276	283	315	329	337
52.5°	225	233	257	269	281
55°	169	177	195	206	212
57.5°	106	117	124	132	138
60°	57	66	63	65	71
62.5°	26	34	30	27	27
65°	18	18	17	16	15
67.5°	15	15	14	13	13
70°	14	14	12	12	11
72.5°	10	10	9	8	8
75°	3	3	3	3	3
77.5°	1	1	1	1	1
80°	1	1	1	1	1
82.5°	1	1	1	1	1
85°	1	1	1	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)