

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: H35026

Luminaire Tested: **H800HP-810BA**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H35026
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H800HP-810BA
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH BLACK BAFFLE
0 DEG AXIS IS PARALLEL TO LAMPS
Light Source: (2) F13TT 13 WATTS 900 LUMENS EACH
TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

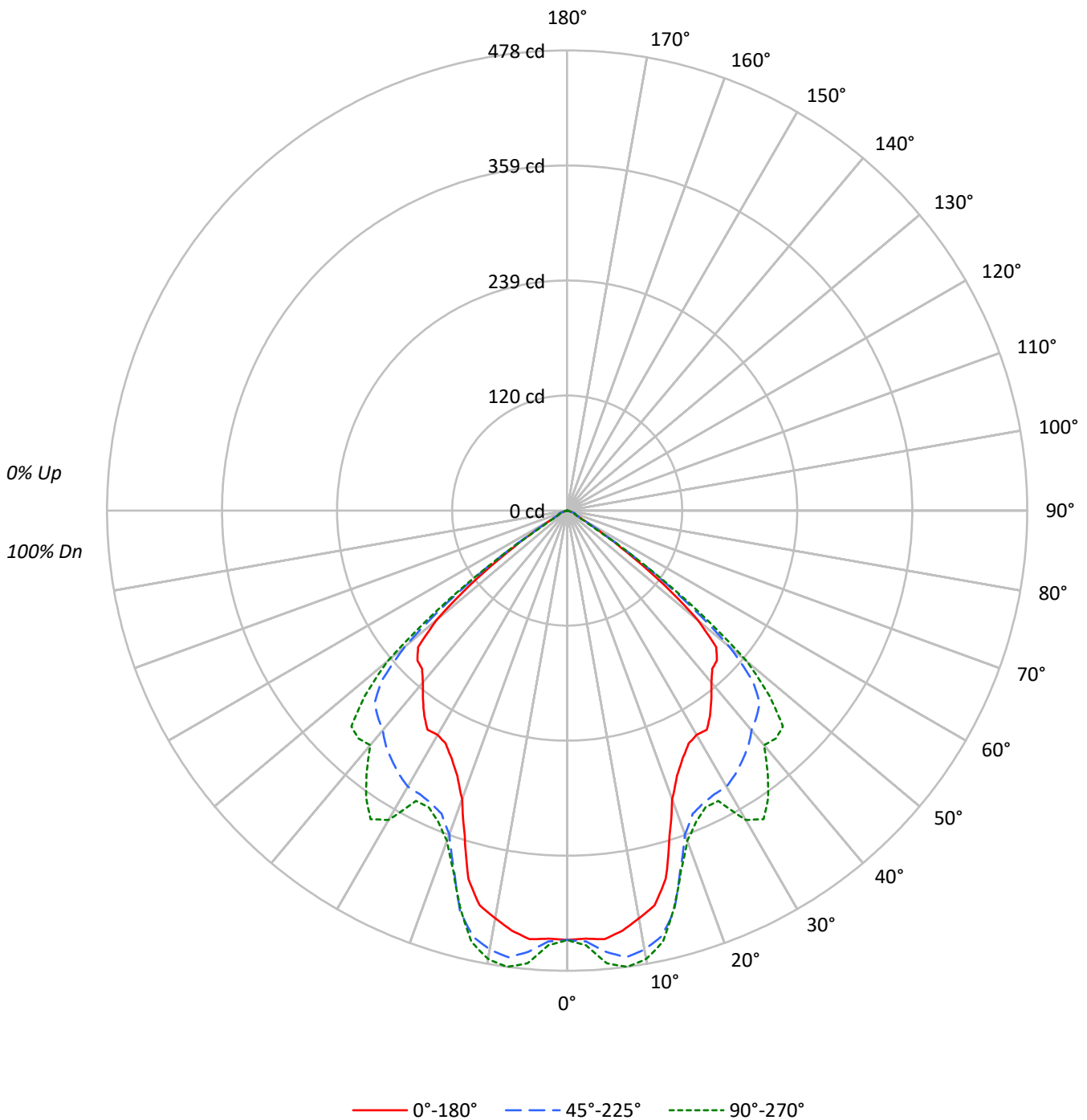
Summary

Lumens per Lamp: 900 (2 lamps)
Luminaire Lumens: 816.8 lumens
Efficiency: 45.4%
Efficacy: 22.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 1.3 / 1.34
Luminous Opening: (L: 0 ' x W: -0.58 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 36
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	54	54	54	54	53	53	53	53	50	50	50		48	48	48		46	46	46	45
1	51	49	48	47	50	48	47	46	46	45	44		45	44	43		43	42	42	41
2	47	45	42	40	46	44	42	40	42	40	39		41	39	38		39	38	37	36
3	44	40	37	35	43	40	37	35	38	36	34		37	35	34		36	34	33	32
4	41	36	33	31	40	36	33	31	35	32	30		34	32	30		33	31	29	29
5	38	33	30	27	37	33	29	27	32	29	27		31	28	27		30	28	26	25
6	35	30	27	24	35	30	27	24	29	26	24		28	26	24		28	25	24	23
7	33	28	24	22	32	27	24	22	27	24	22		26	23	21		25	23	21	20
8	31	25	22	20	30	25	22	20	25	22	19		24	21	19		23	21	19	18
9	29	23	20	18	28	23	20	18	23	20	18		22	20	18		22	19	18	17
10	27	22	18	16	27	21	18	16	21	18	16		21	18	16		20	18	16	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°	43.7	5.4	2.4
10°-20°	115.6	14.1	6.4
20°-30°	152.7	18.7	8.5
30°-40°	196.7	24.1	10.9
40°-50°	206.3	25.3	11.5
50°-60°	87.2	10.7	4.8
60°-70°	10.8	1.3	0.6
70°-80°	3.4	0.4	0.2
80°-90°	0.4	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°	312.0	38.2	17.3
0°-40°	508.7	62.3	28.3
0°-60°	802.2	98.2	44.6
0°-90°	816.8	100.0	45.4
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°	816.8	100.0	45.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	446	446	446	446	446	
5°	447	450	460	468	472	42
15°	396	413	430	430	428	108
25°	284	318	335	337	340	132
35°	259	292	317	347	364	161
45°	220	248	283	309	317	166
55°	76	86	92	88	94	75
65°	10	11	10	9	9	11
75°	2	2	2	2	2	4
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°	446	446	446	446	446
2.5°	445	445	448	451	452
5°	447	450	460	468	472
7.5°	440	447	468	475	478
10°	430	440	463	471	473
12.5°	420	434	453	456	459
15°	396	413	430	430	428
17.5°	354	375	391	394	393
20°	319	341	358	361	365
22.5°	298	325	341	347	350
25°	284	318	335	337	340
27.5°	273	315	332	337	340
30°	269	315	331	351	371
32.5°	270	305	325	359	380
35°	259	292	317	347	364
37.5°	246	277	309	329	342
40°	233	265	298	312	318
42.5°	223	257	291	311	321
45°	220	248	283	309	317
47.5°	210	232	261	285	285
50°	177	200	220	239	244
52.5°	128	144	157	160	170
55°	76	86	92	88	94
57.5°	39	47	43	33	29
60°	18	23	18	14	13
62.5°	12	14	12	11	11
65°	10	11	10	9	9
67.5°	9	10	9	8	8
70°	8	9	8	7	7
72.5°	6	6	6	5	5
75°	2	2	2	2	2
77.5°	1	1	1	1	1
80°	1	1	1	1	1
82.5°	1	1	1	1	1
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)