

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: H23309

Luminaire Tested: **H802HP-810C**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23309
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H802HP-810C
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR
0 DEG AXIS IS PARALLEL TO LAMPS
Light Source: (2) F18DTT 18 WATTS 1250 LUMENS
DOUBLE TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

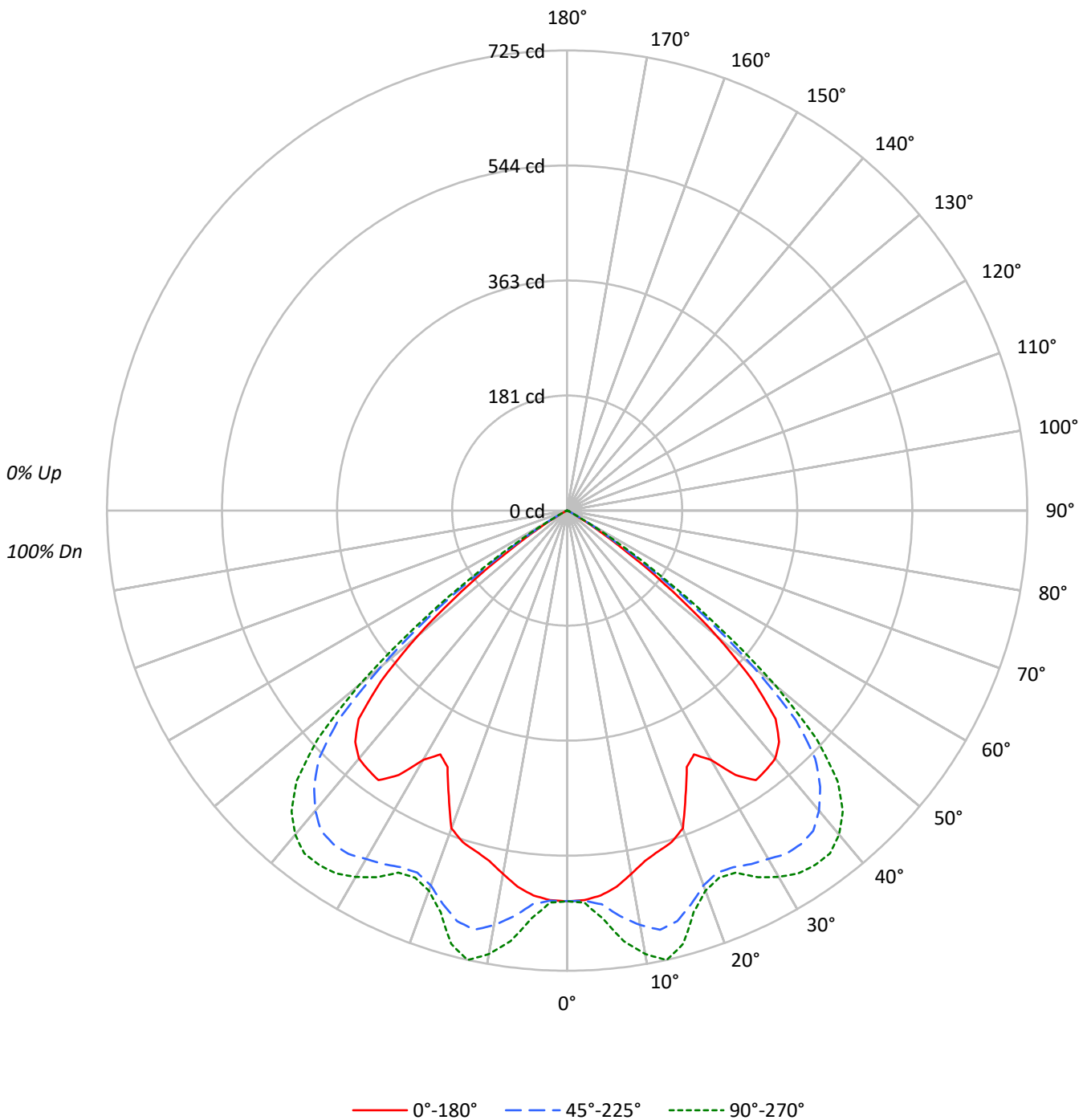
Summary

Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 1462.9 lumens
Efficiency: 58.5%
Efficacy: 28.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.65 / 1.54
Luminous Opening: (L: 0' x W: -0.58' x H: 0'
CIE Type: Direct

Input Watts (W): 51
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	70	70	70	70	68	68	68	68	65	65	65		62	62	62		60	60	60	59
1	65	63	62	60	64	62	61	59	60	58	57		58	57	56		56	55	54	53
2	61	57	54	52	60	56	54	51	54	52	50		53	51	49		51	49	48	47
3	57	52	48	45	55	51	47	45	49	46	44		48	45	43		46	44	42	41
4	53	47	43	39	51	46	42	39	45	41	39		43	40	38		42	40	38	37
5	49	42	38	35	48	42	38	34	41	37	34		40	36	34		39	36	33	32
6	45	38	34	31	44	38	34	31	37	33	30		36	33	30		35	32	30	29
7	42	35	31	27	41	35	30	27	34	30	27		33	30	27		32	29	27	26
8	39	32	28	25	38	32	27	24	31	27	24		30	27	24		30	26	24	23
9	37	29	25	22	36	29	25	22	29	25	22		28	24	22		27	24	22	21
10	34	27	23	20	34	27	23	20	26	23	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°	60.7	4.2	2.4
10°-20°	181.7	12.4	7.3
20°-30°	272.3	18.6	10.9
30°-40°	385.1	26.3	15.4
40°-50°	401.4	27.4	16.1
50°-60°	152.7	10.4	6.1
60°-70°	7.6	0.5	0.3
70°-80°	1.2	0.1	0.0
80°-90°	0.1	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°	514.7	35.2	20.6
0°-40°	899.8	61.5	36.0
0°-60°	1453.9	99.4	58.2
0°-90°	1462.9	100.0	58.5
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°	1462.9	100.0	58.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	609	611	623	638	645	57
15°	556	606	670	696	707	157
25°	446	531	620	627	629	214
35°	519	597	642	654	682	316
45°	464	503	553	574	603	340
55°	121	137	156	169	185	122
65°	4	4	4	4	4	7
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°	615.4	615.4	615.4	615.4	615.4
2.5°	614.3	613.5	615.1	616.2	618.1
5°	608.6	610.8	622.7	637.5	645.0
7.5°	597.8	609.9	644.7	673.5	684.2
10°	581.3	605.0	663.1	700.7	709.4
12.5°	565.5	605.2	676.5	716.4	725.2
15°	555.5	606.0	669.5	696.5	706.6
17.5°	547.7	600.6	650.2	668.0	663.0
20°	532.7	576.3	628.3	648.6	637.3
22.5°	487.3	549.7	617.4	630.1	626.0
25°	445.7	531.2	619.8	626.8	629.3
27.5°	433.0	529.7	627.8	638.1	651.3
30°	453.3	540.1	633.8	648.5	666.5
32.5°	494.1	572.1	641.4	653.3	677.6
35°	518.6	596.7	641.7	654.0	681.6
37.5°	515.0	582.3	636.5	651.6	680.5
40°	510.1	563.4	617.2	634.2	666.6
42.5°	494.2	537.2	590.1	609.3	642.7
45°	464.4	503.0	553.0	574.2	602.8
47.5°	397.8	442.4	489.2	515.0	533.3
50°	308.3	346.7	382.4	413.8	428.2
52.5°	209.8	237.7	269.5	287.0	300.0
55°	121.2	136.9	156.2	169.4	184.7
57.5°	57.2	64.2	77.9	82.3	93.4
60°	22.4	25.9	31.8	32.4	34.7
62.5°	7.9	8.1	8.2	8.2	7.8
65°	3.9	4.2	4.2	4.3	4.3
67.5°	2.8	2.9	3.0	3.0	3.1
70°	2.0	2.1	2.2	2.2	2.2
72.5°	1.4	1.5	1.6	1.6	1.6
75°	1.0	1.1	1.1	1.2	1.1
77.5°	0.7	0.7	0.8	0.8	0.7
80°	0.5	0.5	0.5	0.5	0.5
82.5°	0.3	0.3	0.3	0.3	0.3
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)