

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: H35029

Luminaire Tested: **H800-803P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H35029
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H800-803P
Description: HALO PL RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH FRESNEL GLASS LENS
HORIZONTAL LAMP SETTING
Light Source: (2) 13W/TT 13 WATTS 900 LUMENS EACH
10mm TWIN TUBE COMPACT FLUORESCENT
GX23 D-2 BASE
Ballast/Driver: -

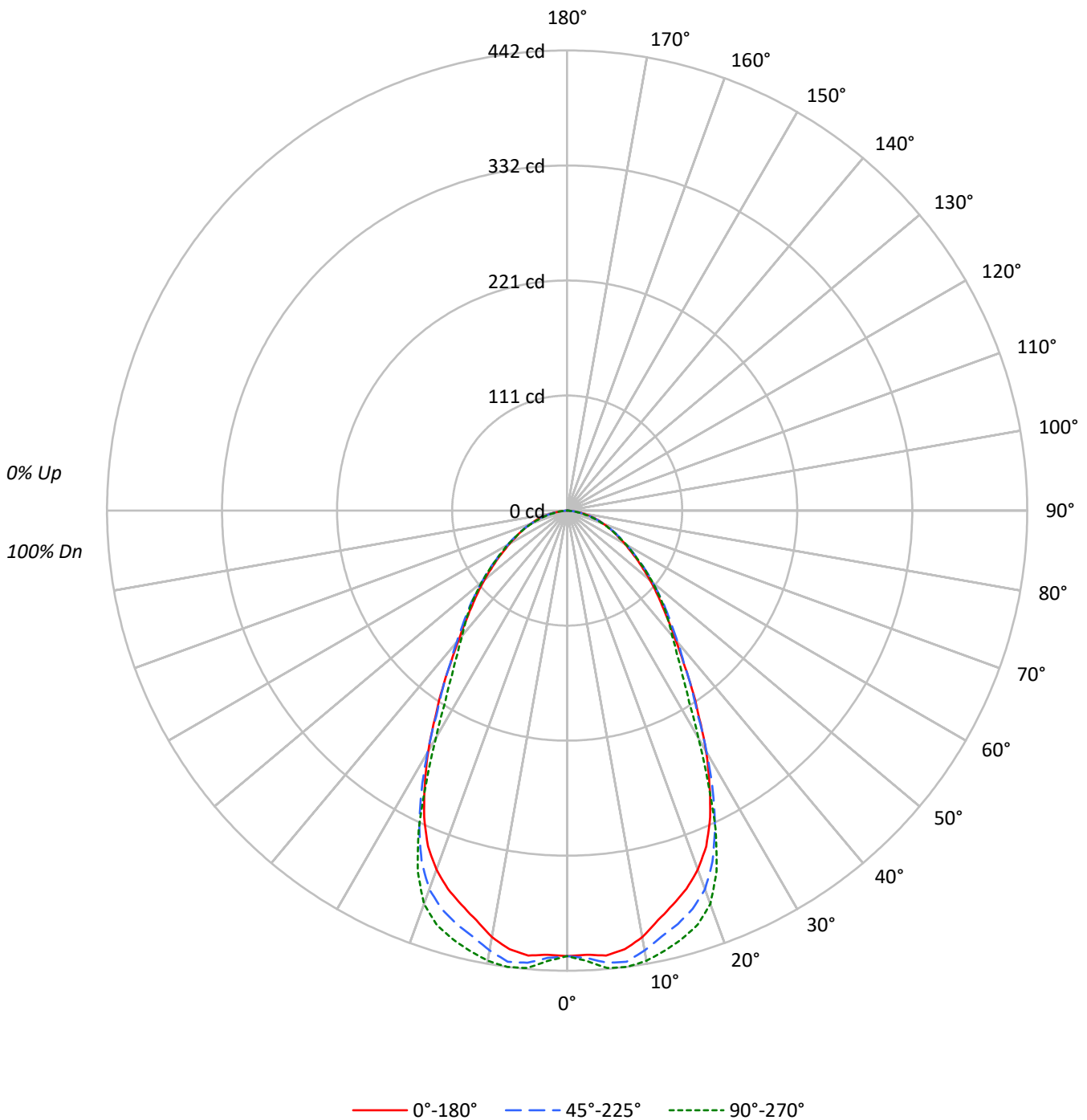
Summary

Lumens per Lamp: 900 (2 lamps)
Luminaire Lumens: 688.6 lumens
Efficiency: 38.3%
Efficacy: 19.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.02
Luminous Opening: (L: 0 ' x W: -0.53 ' 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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	46	46	46	46	44	44	44	44	43	43	43	41	41	41	39	39	39	38	38	38
1	42	41	40	38	41	40	39	38	38	37	37	37	36	35	36	35	34	34	34	34
2	39	37	34	33	38	36	34	32	35	33	32	33	32	31	32	31	30	29	29	29
3	36	33	30	28	36	32	30	28	31	29	28	30	29	27	29	28	27	26	26	26
4	34	30	27	25	33	29	27	25	29	26	24	28	26	24	27	25	24	23	23	23
5	32	27	24	22	31	27	24	22	26	24	22	25	23	22	25	23	21	21	21	21
6	29	25	22	20	29	25	22	20	24	22	20	23	21	20	23	21	19	19	19	19
7	28	23	20	18	27	23	20	18	22	20	18	22	19	18	21	19	18	17	17	17
8	26	21	18	16	25	21	18	16	21	18	16	20	18	16	20	18	16	16	16	16
9	24	20	17	15	24	20	17	15	19	17	15	19	17	15	18	16	15	14	14	14
10	23	19	16	14	23	18	16	14	18	16	14	18	15	14	17	15	14	13	13	13

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°	41.3	6.0	2.3
10°-20°	115.1	16.7	6.4
20°-30°	150.0	21.8	8.3
30°-40°	126.2	18.3	7.0
40°-50°	100.2	14.5	5.6
50°-60°	74.9	10.9	4.2
60°-70°	49.6	7.2	2.8
70°-80°	26.0	3.8	1.4
80°-90°	5.3	0.8	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°	306.5	44.5	17.0
0°-40°	432.7	62.8	24.0
0°-60°	607.8	88.3	33.8
0°-90°	688.6	100.0	38.3
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°	688.6	100.0	38.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	429	432	436	439	441	41
15°	392	396	411	422	426	110
25°	325	319	336	339	337	148
35°	209	191	208	197	193	131
45°	129	123	134	131	132	100
55°	82	81	84	84	84	74
65°	50	49	51	50	50	49
75°	26	24	25	24	23	27
85°	3	3	3	3	3	5
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°	428	428	428	428	428
2.5°	427	429	430	432	433
5°	429	432	436	439	441
7.5°	425	429	437	441	442
10°	416	420	429	436	439
12.5°	403	407	419	429	433
15°	392	396	411	422	426
17.5°	381	384	401	412	417
20°	367	368	387	397	402
22.5°	349	347	365	373	375
25°	325	319	336	339	337
27.5°	296	287	303	299	292
30°	267	254	268	263	252
32.5°	236	221	234	226	218
35°	209	191	208	197	193
37.5°	183	168	184	174	173
40°	162	150	165	157	157
42.5°	144	135	148	143	144
45°	129	123	134	131	132
47.5°	116	112	120	118	119
50°	104	101	107	106	107
52.5°	92	91	96	95	95
55°	82	81	84	84	84
57.5°	72	72	75	74	74
60°	64	64	66	66	66
62.5°	56	56	58	57	57
65°	50	49	51	50	50
67.5°	43	42	44	43	43
70°	37	36	37	36	36
72.5°	32	30	31	30	30
75°	26	24	25	24	23
77.5°	20	19	19	18	17
80°	15	14	14	13	12
82.5°	9	9	9	8	8
85°	3	3	3	3	3
87.5°	1	1	1	1	1
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)