

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: E395442

Luminaire Tested: **H2562**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: E395442  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H2562  
Description: HALO SURFACE FLUOR - RECTANGULAR, DROP LENS  
Light Source: PL13, 900 LUMENS  
Ballast/Driver: -

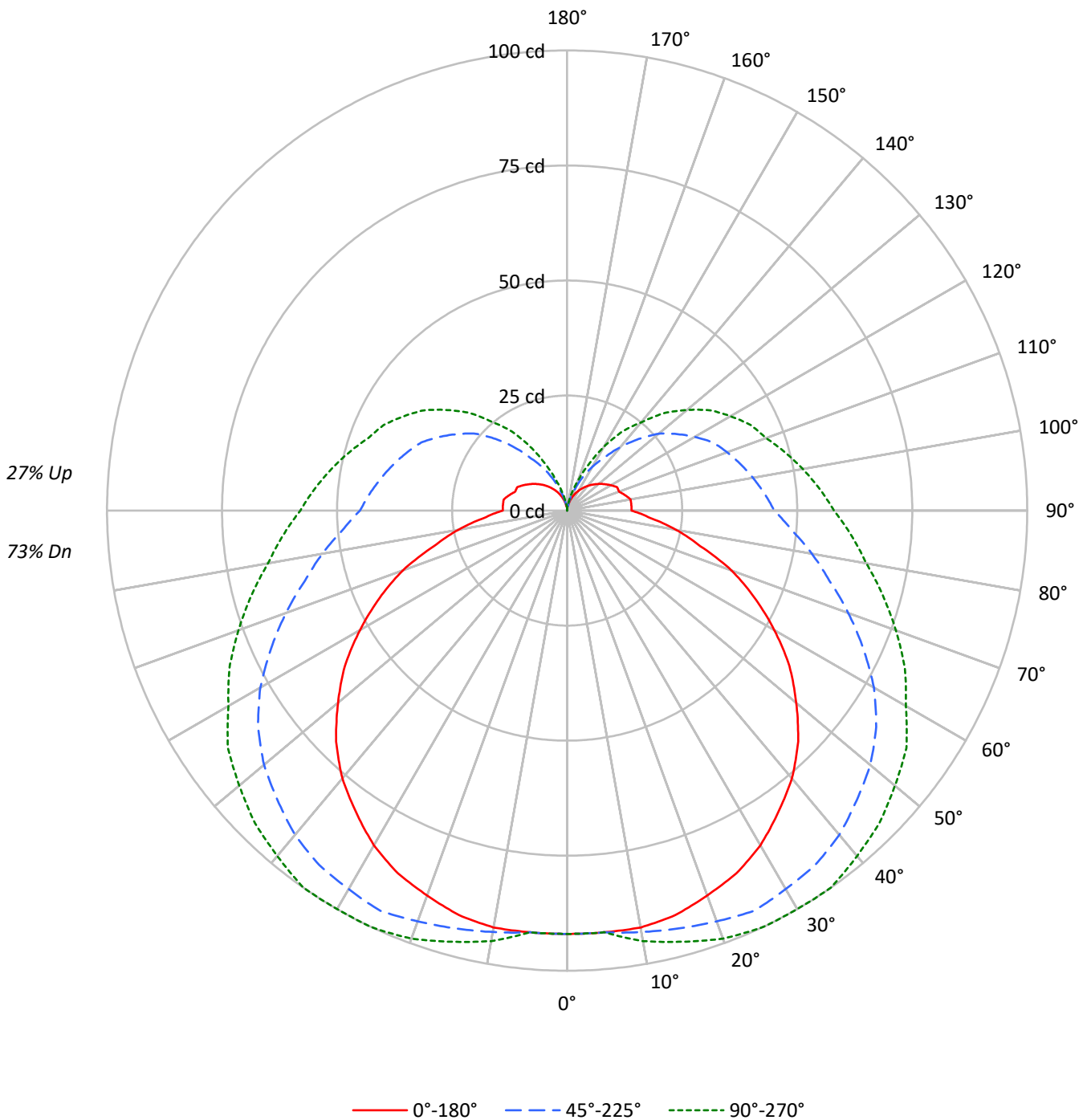
**Summary**

Lumens per Lamp: 900 (1 lamp)  
Luminaire Lumens: 614.2 lumens  
Efficiency: 68.2%  
Efficacy: 38.4 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.62 / 1.69  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 0.27' x H: 0.83')  
CIE Type: Semi-Direct

Input Watts (W): 16  
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	77	77	77	77	73	73	73	73	66	66	66	59	59	59	53	53	53	50
1	68	63	60	56	64	60	57	54	54	51	49	48	46	44	43	41	39	37
2	61	54	49	44	57	51	46	42	46	42	38	41	37	35	36	33	31	29
3	55	47	40	35	51	44	38	34	39	35	31	35	31	28	31	28	25	23
4	50	41	34	29	47	39	33	28	35	30	26	31	27	23	27	24	21	19
5	45	36	29	25	43	34	28	24	31	26	22	27	23	20	24	21	18	16
6	42	32	26	21	39	30	25	20	27	22	19	24	20	17	22	18	16	14
7	38	29	23	18	36	27	22	18	25	20	16	22	18	15	20	16	14	12
8	36	26	20	16	34	25	19	15	22	18	14	20	16	13	18	15	12	10
9	33	24	18	14	31	23	17	14	21	16	13	19	15	12	17	13	11	9
10	31	22	16	13	29	21	16	12	19	14	11	17	13	10	15	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	9652	9652	9652
5°	7635	8134	7635
10°	6356	7306	6356
15°	5420	6646	5420
20°	4689	6158	4689
25°	4138	5735	4138
30°	3667	5358	3667
35°	3250	5063	3250
40°	2908	4738	2908
45°	2586	4473	2586
50°	2275	4213	2275
55°	2002	3996	2002
60°	1725	3729	1725
65°	1471	3538	1471
70°	1234	3330	1234
75°	975	3145	975
80°	787	2979	787
85°	600	2874	600



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.8	1.4	1.0
10°-20°	26.7	4.3	3.0
20°-30°	43.7	7.1	4.9
30°-40°	57.8	9.4	6.4
40°-50°	67.0	10.9	7.4
50°-60°	70.2	11.4	7.8
60°-70°	66.9	10.9	7.4
70°-80°	58.9	9.6	6.5
80°-90°	49.6	8.1	5.5
90°-100°	42.9	7.0	4.8
100°-110°	37.3	6.1	4.1
110°-120°	31.3	5.1	3.5
120°-130°	23.8	3.9	2.6
130°-140°	15.9	2.6	1.8
140°-150°	8.8	1.4	1.0
150°-160°	3.6	0.6	0.4
160°-170°	0.9	0.1	0.1
170°-180°	0.1	0.0	0.0
0°-30°	79.3	12.9	8.8
0°-40°	137.1	22.3	15.2
0°-60°	274.2	44.7	30.5
0°-90°	449.6	73.2	50.0
90°-120°	111.5	18.2	12.4
90°-150°	160.0	26.0	17.8
90°-180°	165.0	26.9	18.3
0°-180°	614.2	100.0	68.2

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	92	92	92	92	92	
5°	92	92	92	92	92	9
15°	91	94	97	94	91	26
25°	87	96	100	96	87	40
35°	80	94	100	94	80	50
45°	71	89	96	89	71	55
55°	59	82	90	82	59	53
65°	45	71	81	71	45	45
75°	30	59	71	59	30	32
85°	18	49	62	49	18	16
90°	14	45	58	45	14	8
95°	14	43	55	43	14	11
105°	13	39	49	39	13	14
115°	12	35	44	35	12	12
125°	10	29	38	29	10	9
135°	8	22	30	22	8	6
145°	6	14	21	14	6	4
155°	4	8	11	8	4	2
165°	2	3	4	3	2	1
175°	1	1	1	1	1	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	92	92	92	92	92	92	92	92	92	92	92
5°	92	92	92	92	92	92	92	92	92	92	92
10°	92	92	92	92	93	93	94	94	95	95	95
15°	91	91	91	92	93	94	96	96	97	97	97
20°	89	89	90	92	94	95	97	98	99	99	99
25°	87	87	88	91	94	96	98	99	100	100	100
30°	84	84	86	89	93	95	98	99	100	100	100
35°	80	81	83	87	91	94	97	99	100	100	100
40°	76	76	80	84	89	92	95	97	98	98	98
45°	71	71	75	81	85	89	93	95	96	96	96
50°	65	66	70	76	81	86	89	92	93	93	93
55°	59	60	65	71	77	82	85	88	89	90	90
60°	52	53	59	65	71	77	81	83	85	85	85
65°	45	47	52	59	65	71	75	78	80	81	81
70°	38	39	45	53	59	65	70	73	75	76	76
75°	30	32	38	46	53	59	64	68	70	71	71
80°	24	25	31	40	47	54	59	63	65	66	66
85°	18	19	26	34	42	49	55	59	61	62	62
90°	14	16	22	31	39	45	51	55	57	58	58
95°	14	15	21	29	36	43	48	52	54	55	55
100°	14	15	20	28	35	41	45	49	51	52	52
105°	13	14	19	26	33	39	43	46	48	49	49
110°	12	13	18	25	31	37	41	44	46	46	46
115°	12	13	17	23	29	35	39	42	43	44	44
120°	11	12	15	21	27	32	36	39	40	41	41
125°	10	11	14	19	24	29	33	35	37	38	38
130°	9	10	12	16	21	26	29	32	33	34	34
135°	8	8	10	14	18	22	25	28	29	30	30
140°	7	7	9	12	15	18	21	23	25	25	25
145°	6	6	7	9	12	14	17	19	20	21	21
150°	5	5	5	7	9	11	13	14	15	16	16
155°	4	4	4	5	6	8	9	10	11	11	11
160°	3	3	3	3	4	5	6	6	7	7	7
165°	2	2	2	2	2	3	3	3	4	4	4
170°	1	1	1	1	1	1	1	1	1	2	2
175°	1	1	1	1	1	1	1	1	1	1	1
180°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	92	92	92	92	92	92	92	92	92	92
5°	92	92	92	92	92	92	92	92	92	92
10°	95	95	94	94	93	93	92	92	92	92
15°	97	97	96	96	94	93	92	91	91	91
20°	99	99	98	97	95	94	92	90	89	89
25°	100	100	99	98	96	94	91	88	87	87
30°	100	100	99	98	95	93	89	86	84	84
35°	100	100	99	97	94	91	87	83	81	80
40°	98	98	97	95	92	89	84	80	76	76
45°	96	96	95	93	89	85	81	75	71	71
50°	93	93	92	89	86	81	76	70	66	65
55°	90	89	88	85	82	77	71	65	60	59
60°	85	85	83	81	77	71	65	59	53	52
65°	81	80	78	75	71	65	59	52	47	45
70°	76	75	73	70	65	59	53	45	39	38
75°	71	70	68	64	59	53	46	38	32	30
80°	66	65	63	59	54	47	40	31	25	24
85°	62	61	59	55	49	42	34	26	19	18
90°	58	57	55	51	45	39	31	22	16	14
95°	55	54	52	48	43	36	29	21	15	14
100°	52	51	49	45	41	35	28	20	15	14
105°	49	48	46	43	39	33	26	19	14	13
110°	46	46	44	41	37	31	25	18	13	12
115°	44	43	42	39	35	29	23	17	13	12
120°	41	40	39	36	32	27	21	15	12	11
125°	38	37	35	33	29	24	19	14	11	10
130°	34	33	32	29	26	21	16	12	10	9
135°	30	29	28	25	22	18	14	10	8	8
140°	25	25	23	21	18	15	12	9	7	7
145°	21	20	19	17	14	12	9	7	6	6
150°	16	15	14	13	11	9	7	5	5	5
155°	11	11	10	9	8	6	5	4	4	4
160°	7	7	6	6	5	4	3	3	3	3
165°	4	4	3	3	3	2	2	2	2	2
170°	2	1	1	1	1	1	1	1	1	1
175°	1	1	1	1	1	1	1	1	1	1
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)