

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: E395571

Luminaire Tested: **H42-480**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395571
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H42-480
Description: HALO RECESSED INC - H42 HOUSING, CLEAR SPEC REFL, MAX TILT
Light Source: 300R40SP, 3650 LUMENS
Ballast/Driver: -

Summary

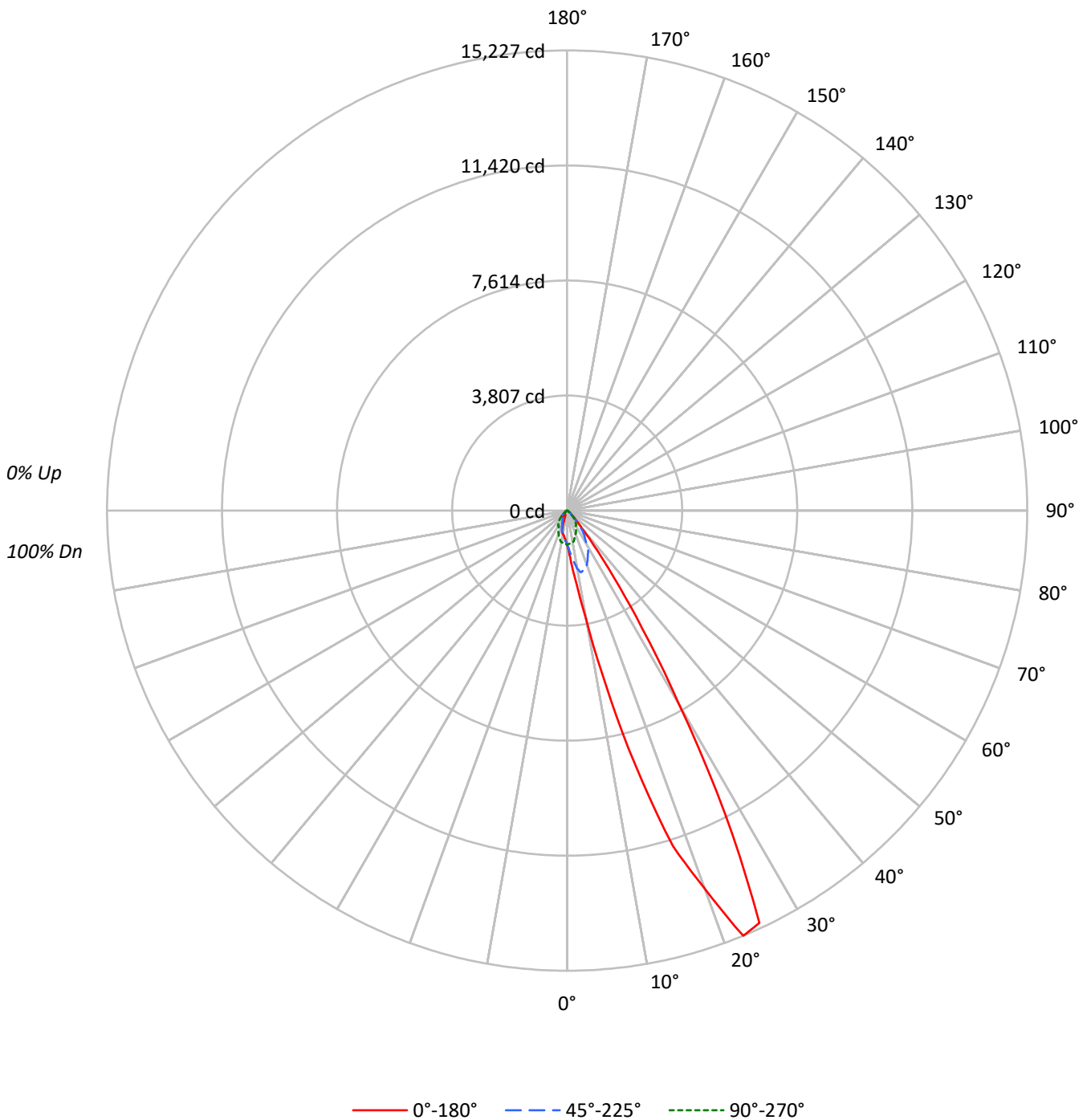
Lumens per Lamp: 3650 (1 lamp)
Luminaire Lumens: 2557.6 lumens
Efficiency: 70.1%
Efficacy: 8.5 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 0.87 / 1.07
Luminous Opening: (L: 0 ' x W: -0.6 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 300
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	83	83	83	83	81	81	81	81	78	78	78		75	75	75		71	71	71	70
1	79	77	75	74	77	76	74	72	73	71	70		70	69	68		68	67	66	65
2	75	71	68	66	73	70	67	65	68	65	63		66	64	62		64	62	61	60
3	71	66	62	59	69	65	61	59	63	60	58		61	59	57		60	58	56	55
4	67	61	57	54	66	60	56	53	59	55	53		57	54	52		56	54	52	50
5	63	57	52	49	62	56	52	49	55	51	48		54	51	48		53	50	48	47
6	60	53	48	45	59	52	48	45	51	48	45		50	47	44		49	46	44	43
7	56	49	45	42	55	49	45	42	48	44	41		47	44	41		46	43	41	40
8	53	46	42	39	52	46	41	39	45	41	38		44	41	38		44	40	38	37
9	51	43	39	36	50	43	39	36	42	38	36		42	38	36		41	38	35	34
10	48	41	36	33	47	40	36	33	40	36	33		39	36	33		39	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	125.7	4.9	3.4
10°-20°	622.5	24.3	17.1
20°-30°	1022.2	40.0	28.0
30°-40°	481.9	18.8	13.2
40°-50°	191.2	7.5	5.2
50°-60°	72.1	2.8	2.0
60°-70°	34.4	1.3	0.9
70°-80°	7.0	0.3	0.2
80°-90°	0.5	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°	1770.4	69.2	48.5
0°-40°	2252.4	88.1	61.7
0°-60°	2515.6	98.4	68.9
0°-90°	2557.6	100.0	70.1
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°	2557.6	100.0	70.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1136	1136	1136	1136	1136	
5°	1823	1488	1099	978	918	229
15°	8715	2058	933	669	620	2611
25°	15053	1614	700	370	161	5920
35°	2625	983	477	265	218	1922
45°	340	210	203	235	258	274
55°	116	78	61	74	84	98
65°	7	7	37	61	50	8
75°	0	0	7	10	10	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1136	1136	1136	1136	1136	1136	1136	1136	1136
2.5°	1347	1319	1254	1176	1105	1048	1018	1001	995
5°	1823	1724	1488	1251	1099	1021	978	941	918
7.5°	2476	2234	1712	1268	1072	971	874	840	834
10°	3700	3050	1956	1281	1068	937	837	806	797
12.5°	5879	4410	2092	1254	1034	870	783	749	744
15°	8715	6175	2058	1166	933	795	669	622	620
17.5°	11633	8297	2068	1119	903	681	565	444	338
20°	13299	9164	1905	1105	818	630	477	242	158
22.5°	15227	9140	1766	1068	767	650	417	202	151
25°	15053	7814	1614	892	700	600	370	222	161
27.5°	11313	5277	1509	859	581	388	306	205	168
30°	7386	3125	1298	889	581	246	218	168	147
32.5°	4614	2006	1098	855	561	303	225	175	161
35°	2625	1469	983	811	477	337	265	235	218
37.5°	1438	1017	800	595	443	347	289	255	241
40°	752	694	526	423	389	320	292	282	271
42.5°	469	425	339	304	318	270	265	265	271
45°	340	279	210	230	203	226	235	239	258
47.5°	187	160	176	156	132	152	192	202	194
50°	150	143	163	74	98	101	114	128	121
52.5°	122	129	119	54	74	78	81	91	84
55°	116	122	78	44	61	71	74	87	84
57.5°	116	68	64	41	61	74	71	77	77
60°	20	17	20	37	54	74	67	71	70
62.5°	10	10	14	30	47	67	64	61	60
65°	7	7	7	20	37	61	61	57	50
67.5°	7	3	3	20	30	51	54	47	44
70°	0	3	3	14	20	34	37	34	37
72.5°	0	2	2	3	7	17	20	13	10
75°	0	0	0	0	7	10	10	10	10
77.5°	0	0	0	0	3	3	3	3	7
80°	0	0	0	0	2	3	3	3	3
82.5°	0	0	0	0	1	2	2	2	2
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)