

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P380847

Luminaire Tested: **H36RTAT-3013WH**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P380847
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H36RTAT-3013WH
Description: 3" ADJ SQUARE GIMBAL, MW TRIM
Light Source: -
Ballast/Driver: -

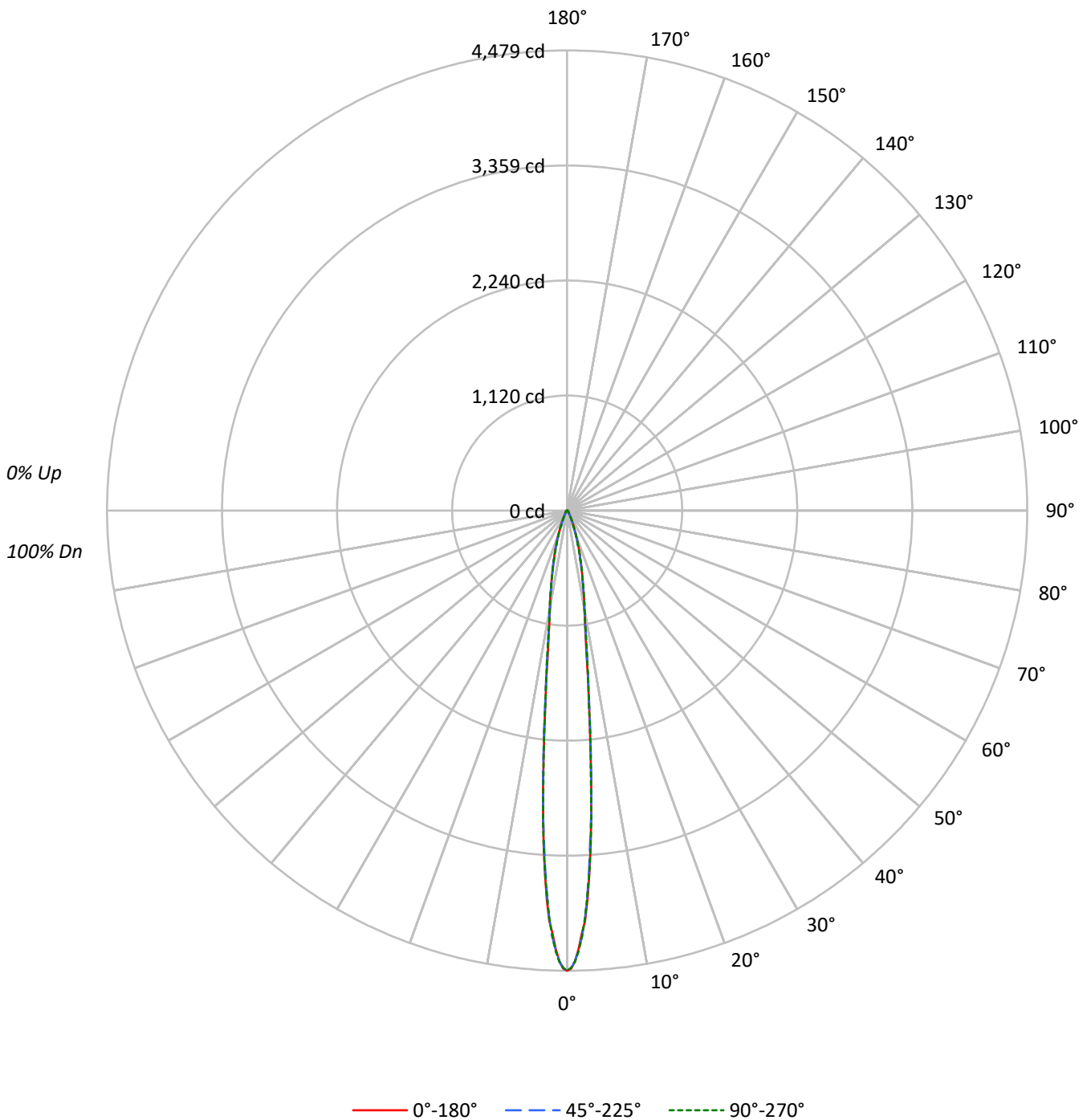
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 449.2 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.22
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 8.4
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

TEST NUMBER: P380847
CATALOG NUMBER: H36RTAT-3013WH

Luminous Intensity Polar Plot





TEST NUMBER: P380847

CATALOG NUMBER: H36RTAT-3013WH

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	101	97	93	104	99	96	93	97	94	91	94	92	90	92	90	88	87
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84
5	99	93	88	85	98	92	88	84	90	87	84	89	85	83	87	84	82	81
6	96	89	85	82	95	89	84	81	87	84	81	86	83	80	85	82	80	79
7	93	87	82	79	92	86	82	79	85	81	78	84	80	78	83	80	78	77
8	91	84	80	77	90	84	79	76	83	79	76	82	78	76	81	78	76	75
9	89	82	77	75	88	81	77	74	81	77	74	80	76	74	79	76	74	73
10	87	80	76	73	86	79	75	73	79	75	72	78	75	72	77	74	72	71

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1735610	1735610	1735610
5°	1045966	1048689	1031185
10°	378919	381279	385214
15°	202991	199381	197776
20°	101030	96907	94020
25°	46604	44466	42756
30°	22372	21925	21030
35°	13245	12772	12299
40°	10623	10117	10117
45°	8768	8768	8768
50°	9043	9043	9043
55°	9458	9458	9458
60°	10075	10075	10075
65°	10086	10086	10086
70°	10197	10197	10197
75°	10480	10480	10480
80°	6695	6695	6695
85°	0	0	0



TEST NUMBER: P380847

CATALOG NUMBER: H36RTAT-3013WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	43.0
10°-20°	141.3	31.4
20°-30°	52.4	11.7
30°-40°	18.4	4.1
40°-50°	12.8	2.8
50°-60°	12.3	2.7
60°-70°	10.9	2.4
70°-80°	7.1	1.6
80°-90°	0.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	387.0	86.1
0°-40°	405.4	90.3
0°-60°	430.6	95.8
0°-90°	449.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4479	4479	4479	4479	4479	
5°	2689	2687	2696	2674	2651	193
15°	506	502	497	490	493	143
25°	109	108	104	101	100	55
35°	28	27	27	26	26	19
45°	16	16	16	16	16	13
55°	14	14	14	14	14	13
65°	11	11	11	11	11	11
75°	7	7	7	7	7	7
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P380847

CATALOG NUMBER: H36RTAT-3013WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4479	4479	4479	4479	4479
0.5°	4460	4452	4453	4464	4449
1°	4388	4375	4384	4402	4391
1.5°	4269	4264	4277	4300	4294
2°	4115	4148	4152	4157	4153
2.5°	4000	3975	3972	3980	3971
3°	3786	3775	3752	3768	3752
3.5°	3539	3519	3491	3523	3526
4°	3267	3256	3226	3273	3267
4.5°	2982	2972	2984	2962	2995
5°	2689	2687	2696	2674	2651
5.5°	2396	2405	2408	2372	2378
6°	2122	2125	2132	2119	2112
6.5°	1874	1865	1879	1909	1871
7°	1664	1667	1702	1705	1699
7.5°	1462	1484	1518	1493	1520
8°	1324	1366	1364	1348	1370
8.5°	1211	1231	1221	1227	1241
9°	1115	1120	1124	1135	1133
9.5°	1035	1030	1050	1046	1042
10°	963	962	969	968	979
12.5°	694	688	690	689	693
15°	506	502	497	490	493
17.5°	357	358	346	344	339
20°	245	241	235	234	228
22.5°	166	162	156	154	149
25°	109	108	104	101	100
27.5°	73	72	69	67	67
30°	50	50	49	47	47
32.5°	36	36	35	34	34
35°	28	27	27	26	26
37.5°	24	24	23	23	22
40°	21	21	20	20	20
42.5°	18	18	18	18	17
45°	16	16	16	16	16
47.5°	15	15	15	15	15
50°	15	15	15	14	15
52.5°	14	14	14	14	14
55°	14	14	14	14	14
57.5°	14	13	13	13	13
60°	13	13	13	13	13
62.5°	12	12	12	12	12
65°	11	11	11	11	11
67.5°	10	10	10	10	10
70°	9	9	9	9	9



TEST NUMBER: P380847

CATALOG NUMBER: H36RTAT-3013WH

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
72.5°	8	8	8	8	8
75°	7	7	7	7	7
77.5°	5	6	6	6	6
80°	3	3	3	3	3
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

(END OF REPORT)