

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: P380846

Luminaire Tested: **H36RTAT-3012WHWB**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P380846
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H36RTAT-3012WHWB
Description: 3" ADJ LENS SQUARE MW BAFFLE, MW TRIM
Light Source: -
Ballast/Driver: -

Summary

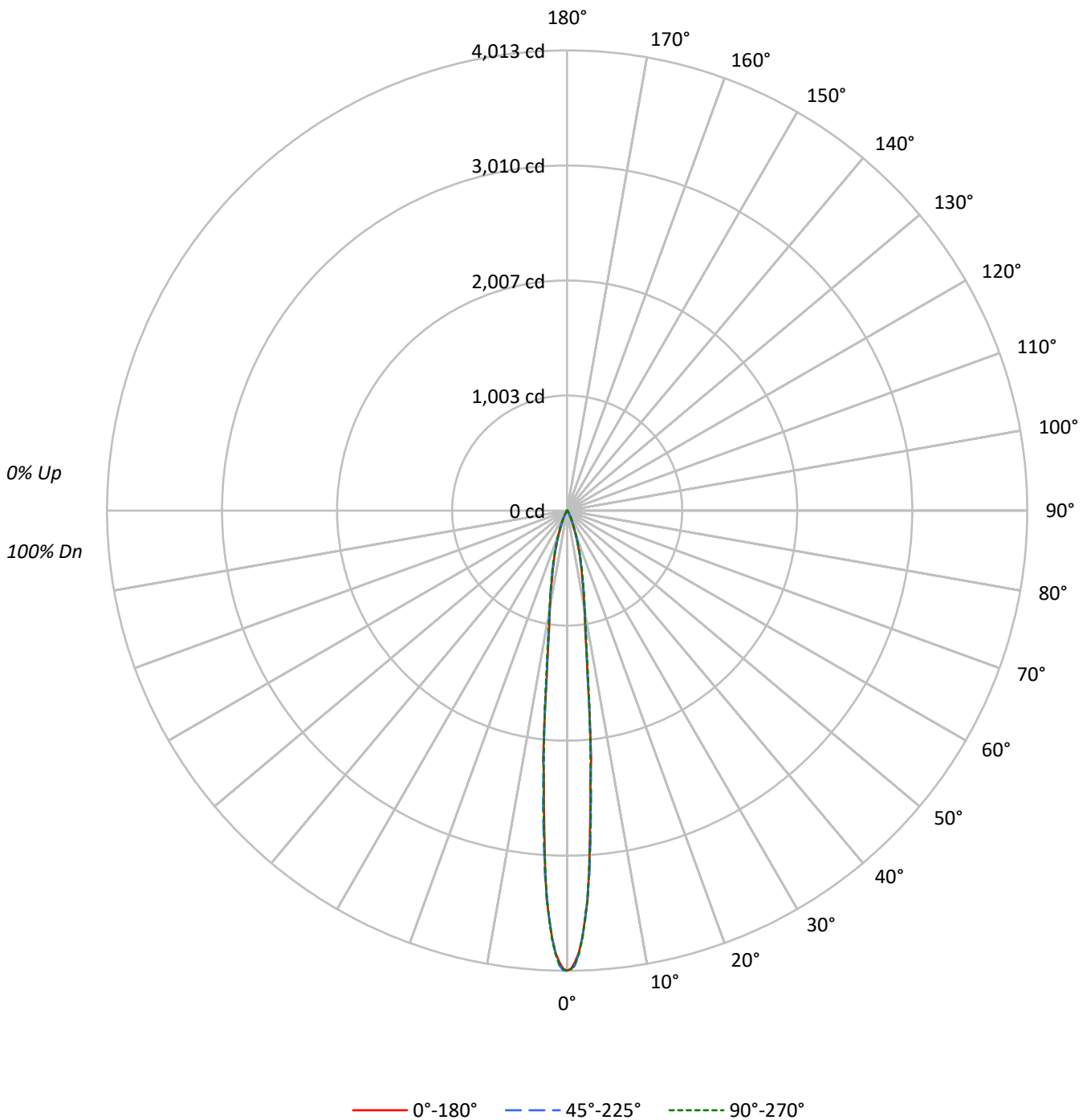
Lumens per Lamp: N/A
Luminaire Lumens: 369.3 lumens
Efficiency: N/A
Efficacy: 44.0 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.22
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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

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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	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	100	100	100	100	100	100	100	
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	97	97	97	97	97	97	
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94	94	94	94	94	94	
3	108	104	100	97	106	102	99	97	100	97	95	98	95	94	95	94	92	91	91	91	91	91	91	91	91	
4	105	100	96	93	103	99	95	93	97	94	92	95	93	91	93	91	90	88	88	88	88	88	88	88	88	
5	102	97	93	90	101	96	92	89	94	91	89	93	90	88	91	89	87	86	86	86	86	86	86	86	86	
6	100	94	90	87	98	93	89	87	92	88	86	90	88	85	89	87	85	84	84	84	84	84	84	84	84	
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82	82	82	82	82	82	82	82	
8	95	89	85	82	94	88	84	82	87	84	82	86	83	81	86	83	81	80	80	80	80	80	80	80	80	
9	93	86	83	80	92	86	82	80	85	82	80	85	82	80	84	81	79	78	78	78	78	78	78	78	78	
10	91	84	81	78	90	84	81	78	83	80	78	83	80	78	82	80	78	77	77	77	77	77	77	77	77	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1555035	1555035	1555035
5°	901266	931217	917214
10°	341145	343112	347440
15°	175311	183334	184137
20°	84535	87834	90309
25°	37198	38908	39763
30°	14766	19240	15661
35°	4257	9934	4257
40°	3035	5058	3035
45°	2740	2740	2740
50°	3014	2411	3014
55°	2702	2702	3378
60°	3100	2325	3100
65°	1834	1834	1834
70°	2266	2266	2266
75°	1497	1497	1497
80°	2232	2232	2232
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	46.9
10°-20°	127.6	34.6
20°-30°	45.8	12.4
30°-40°	10.6	2.9
40°-50°	4.3	1.2
50°-60°	3.9	1.1
60°-70°	2.4	0.7
70°-80°	1.4	0.4
80°-90°	0.1	0.0
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°	346.5	93.8
0°-40°	357.1	96.7
0°-60°	365.3	98.9
0°-90°	369.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	369.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4013	4013	4013	4013	4013	
5°	2317	2403	2394	2430	2358	171
15°	437	445	457	455	459	125
25°	87	89	91	93	93	43
35°	9	13	21	13	9	8
45°	5	5	5	5	5	4
55°	4	5	4	4	5	4
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
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°
0°	4013	4013	4013	4013	4013
0.5°	3995	4003	4009	4005	4000
1°	3937	3955	3967	3953	3956
1.5°	3855	3857	3864	3848	3868
2°	3730	3725	3732	3718	3743
2.5°	3566	3563	3568	3551	3577
3°	3400	3353	3377	3373	3384
3.5°	3146	3167	3188	3163	3123
4°	2844	2932	2919	2950	2883
4.5°	2580	2672	2656	2692	2622
5°	2317	2403	2394	2430	2358
5.5°	2186	2143	2137	2171	2107
6°	1916	1869	1900	1898	1927
6.5°	1665	1650	1684	1709	1709
7°	1465	1470	1479	1517	1524
7.5°	1309	1303	1332	1356	1372
8°	1178	1181	1203	1234	1223
8.5°	1064	1090	1110	1119	1116
9°	996	1008	1018	1022	1025
9.5°	935	932	930	942	950
10°	867	864	872	883	883
12.5°	607	615	626	636	637
15°	437	445	457	455	459
17.5°	309	306	313	318	320
20°	205	208	213	218	219
22.5°	135	137	143	141	147
25°	87	89	91	93	93
27.5°	53	58	62	60	59
30°	33	37	43	38	35
32.5°	18	23	31	24	18
35°	9	13	21	13	9
37.5°	7	8	14	8	7
40°	6	7	10	7	6
42.5°	5	6	7	6	5
45°	5	5	5	5	5
47.5°	5	5	5	5	5
50°	5	5	4	5	5
52.5°	7	5	4	5	6
55°	4	5	4	4	5
57.5°	4	4	3	4	4
60°	4	4	3	4	4
62.5°	3	3	3	3	3
65°	2	2	2	2	2
67.5°	2	2	2	2	2
70°	2	2	2	2	2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
72.5°	2	2	2	2	1
75°	1	1	1	1	1
77.5°	1	1	1	1	1
80°	1	1	1	1	1
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)