

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: E395238

Luminaire Tested: **H7-1450**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395238
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-1450
Description: HALO RECESSED INC - LV, 8" ADJUSTABLE SLOT, 45 DEG TILT
Light Source: 50MR16NSP, 900 LUMENS
Ballast/Driver: -

Summary

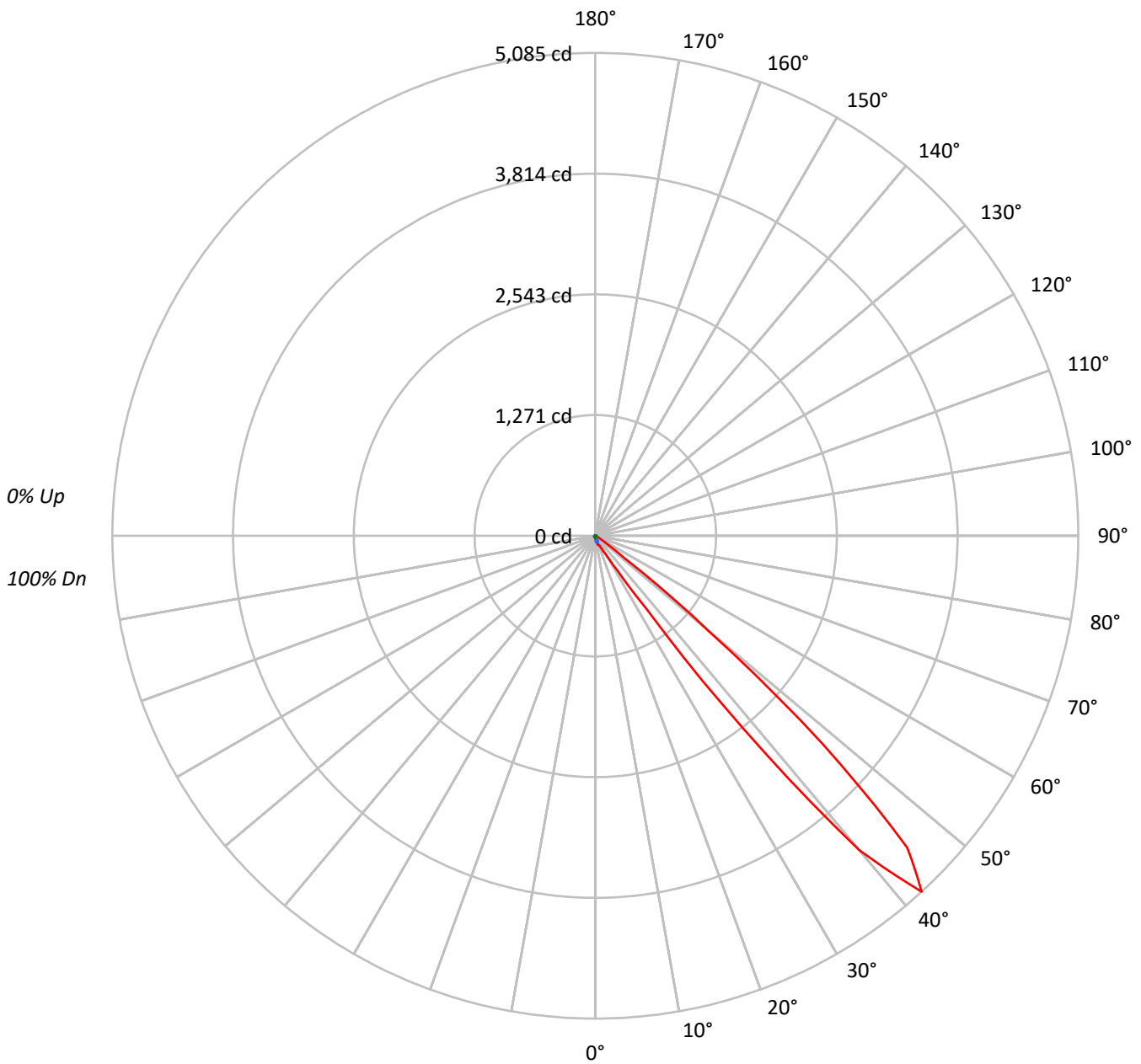
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 357.5 lumens
Efficiency: 39.7%
Efficacy: 6.0 lumens/watt
Spacing Criteria (0/90/45): 3 / 0.61 / 1.57
Luminous Opening: Rectangular (W 0.23' x L: 0.12' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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



— 0°-180° - - 45°-225° - - - 90°-270°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	47	47	47	47	46	46	46	46	44	44	44	42	42	42	41	41	41	40						40													
1	43	42	40	39	42	41	39	38	39	38	37	38	37	36	36	35	35	34						34													
2	40	37	34	32	39	36	34	32	35	33	31	33	32	30	32	31	29	29						29													
3	36	32	29	27	35	32	29	26	30	28	26	29	27	25	28	27	25	24						24													
4	33	28	25	22	32	28	25	22	27	24	22	26	24	22	25	23	21	20						20													
5	30	25	21	19	29	25	21	19	24	21	18	23	20	18	22	20	18	17						17													
6	27	22	18	16	27	22	18	16	21	18	16	20	18	16	20	17	15	15						15													
7	25	20	16	13	24	19	16	13	19	16	13	18	15	13	17	15	13	12						12													
8	23	17	14	11	22	17	14	11	17	14	11	16	13	11	16	13	11	10						10													
9	21	16	12	10	21	15	12	10	15	12	10	14	12	10	14	11	10	9						9													
10	19	14	11	8	19	14	11	8	13	10	8	13	10	8	13	10	8	8						8													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8190	8190	8190
5°	24664	8613	4698
10°	26533	6336	1188
15°	37145	4845	808
20°	44408	4150	830
25°	57662	3443	861
30°	112132	1351	450
35°	453722	476	476
40°	2199333	3055	1527
45°	2561347	8825	10479
50°	942248	7281	7887
55°	105391	4760	6799
60°	25740	5460	7800
65°	19379	6460	8305
70°	7982	5701	7982
75°	12055	10548	15068
80°	26951	15721	15721
85°	58171	40272	40272



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	3.1	0.9	0.3
10°-20°	10.4	2.9	1.2
20°-30°	16.7	4.7	1.9
30°-40°	80.8	22.6	9.0
40°-50°	196.2	54.9	21.8
50°-60°	24.0	6.7	2.7
60°-70°	8.0	2.2	0.9
70°-80°	7.4	2.1	0.8
80°-90°	11.0	3.1	1.2
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°	30.1	8.4	3.3
0°-40°	110.9	31.0	12.3
0°-60°	331.0	92.6	36.8
0°-90°	357.5	100.0	39.7
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°	357.5	100.0	39.7

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	63	63	22	12	12	6
15°	92	68	12	2	2	26
25°	134	64	8	1	2	72
35°	953	16	1	2	1	1028
45°	4644	24	16	19	19	3048
55°	155	9	7	8	10	307
65°	21	7	7	7	9	20
75°	8	8	7	7	10	9
85°	13	7	9	14	9	14
90°	13	12	12	13	13	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	21	21	21	21	21	21	21	21	21	21	21
5°	63	62	62	61	61	63	62	55	40	28	22
10°	67	65	65	64	66	67	67	66	55	26	16
15°	92	93	92	86	72	68	68	70	56	17	12
17.5°	101	104	103	97	80	69	68	70	52	14	12
20°	107	107	101	97	85	71	67	58	35	11	10
22.5°	107	108	111	101	86	71	55	40	22	9	9
25°	134	132	113	111	88	64	37	21	10	8	8
27.5°	189	184	149	111	92	48	20	12	8	8	6
30°	249	273	207	129	87	30	14	12	6	5	3
32.5°	432	430	344	149	72	20	12	11	5	2	2
35°	953	912	537	196	51	16	8	8	3	1	1
37.5°	2554	2053	744	202	35	14	7	5	1	1	1
40°	4320	3450	967	190	35	14	6	4	3	4	6
42.5°	5085	4673	999	115	40	20	16	10	13	13	13
45°	4644	4408	761	75	41	24	20	11	18	16	16
47.5°	3247	2590	348	47	34	22	19	12	17	16	15
50°	1553	1112	116	37	24	15	13	8	12	12	12
52.5°	396	273	72	29	16	9	7	4	7	7	7
55°	155	119	47	28	13	9	7	3	7	7	7
57.5°	72	66	32	21	11	8	7	3	7	7	7
60°	33	30	29	15	10	7	7	4	7	7	7
65°	21	17	14	10	7	7	7	3	7	7	7
70°	7	7	6	5	5	6	6	2	5	5	5
75°	8	8	9	7	7	8	7	3	7	7	7
80°	12	10	10	8	7	6	7	3	7	7	7
85°	13	12	11	9	7	7	7	4	8	8	9
90°	13	12	12	12	12	12	12	7	13	13	12



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	21	21	21	21	21	21	21	21	21	21
5°	18	12	11	11	12	13	12	12	12	12
10°	12	11	11	9	8	7	4	3	3	3
15°	12	11	7	3	2	2	2	2	2	2
17.5°	11	8	3	2	2	2	2	1	1	2
20°	9	6	2	2	1	1	1	1	1	2
22.5°	9	3	2	1	1	1	2	2	2	2
25°	6	2	1	1	1	1	1	2	2	2
27.5°	3	1	1	1	1	1	1	2	2	2
30°	2	1	1	1	1	1	1	1	1	1
32.5°	1	1	1	1	1	1	1	1	1	1
35°	1	2	2	2	2	2	1	1	1	1
37.5°	2	6	10	12	9	4	1	1	1	1
40°	9	16	21	21	19	13	7	5	3	3
42.5°	17	21	24	24	23	17	15	14	13	14
45°	17	19	21	21	19	17	17	19	18	19
47.5°	15	15	15	16	15	15	16	17	18	19
50°	12	11	11	11	12	12	13	13	13	13
52.5°	7	7	7	7	8	9	9	9	9	10
55°	7	7	7	7	8	8	9	9	9	10
57.5°	7	7	7	8	8	9	9	9	10	10
60°	7	7	7	8	8	9	9	10	9	10
65°	7	7	7	7	7	7	8	9	9	9
70°	5	4	4	4	5	7	7	7	7	7
75°	7	6	7	7	7	8	8	8	8	10
80°	8	9	10	11	10	10	9	8	8	7
85°	10	12	14	14	14	11	10	11	10	9
90°	12	13	13	13	13	12	12	13	14	13

(END OF REPORT)