

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: E395240

Luminaire Tested: **H7-1450**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395240
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: 50MR16NFL, 900 LUMENS
Ballast/Driver: -

Summary

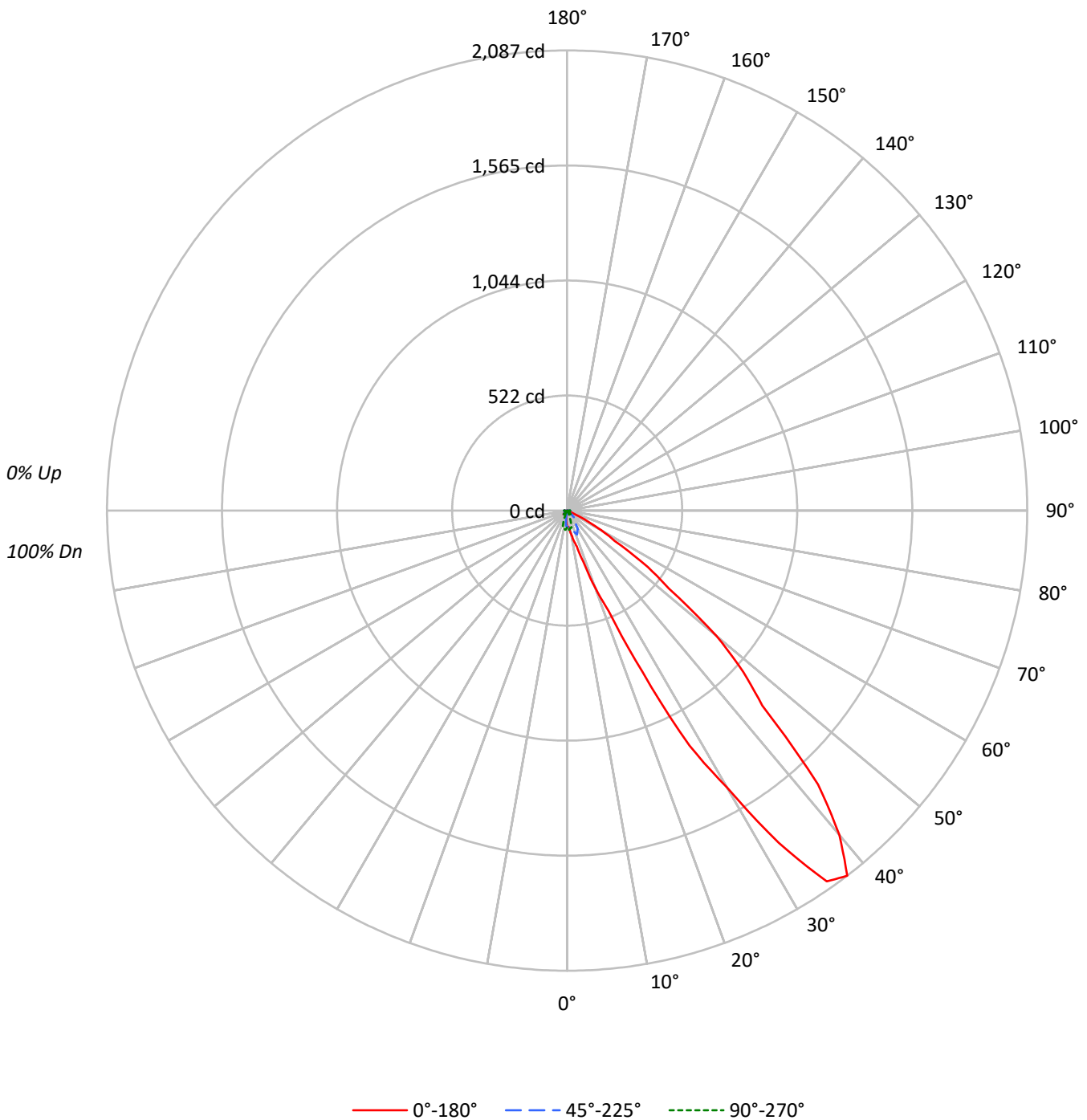
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 452.7 lumens
Efficiency: 50.3%
Efficacy: 7.5 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.71 / 0.96
Luminous Opening: Rectangular (W 0.23' x L: 0.12' x H: 0')
CIE Type: Direct

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





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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	60	60	60	60	58	58	58	58	56	56	56	54	54	54	51	51	51	50						50													
1	55	53	51	50	54	52	50	49	50	48	47	48	47	46	46	45	44	43						43													
2	51	47	44	42	50	46	43	41	45	42	40	43	41	39	41	40	38	37						37													
3	47	42	38	35	46	41	38	35	40	37	34	38	36	34	37	35	33	32						32													
4	43	37	33	30	42	37	33	30	35	32	29	34	31	29	33	31	29	28						28													
5	39	33	29	26	38	33	29	26	32	28	25	31	28	25	30	27	25	24						24													
6	36	30	25	22	35	29	25	22	28	25	22	28	24	22	27	24	22	21						21													
7	33	27	22	19	33	26	22	19	26	22	19	25	22	19	24	21	19	18						18													
8	31	24	20	17	30	24	20	17	23	19	17	22	19	17	22	19	17	16						16													
9	29	22	18	15	28	21	18	15	21	17	15	20	17	15	20	17	15	14						14													
10	26	20	16	13	26	20	16	13	19	15	13	19	15	13	18	15	13	12						12													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29250	29250	29250
5°	28970	34451	17225
10°	43957	32473	1980
15°	67831	31493	1615
20°	155635	17016	830
25°	347694	4303	861
30°	653428	1351	450
35°	977430	952	476
40°	977481	9164	6109
45°	689975	11031	13237
50°	535740	7281	7887
55°	304613	4760	6119
60°	138839	5460	6240
65°	26762	6460	7382
70°	2281	5701	7982
75°	4520	10548	10548
80°	11230	22459	20213
85°	31323	53697	53697



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	6.3	1.4	0.7
10°-20°	18.6	4.1	2.1
20°-30°	61.4	13.6	6.8
30°-40°	151.3	33.4	16.8
40°-50°	135.0	29.8	15.0
50°-60°	48.3	10.7	5.4
60°-70°	11.9	2.6	1.3
70°-80°	7.5	1.7	0.8
80°-90°	12.3	2.7	1.4
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°	86.4	19.1	9.6
0°-40°	237.7	52.5	26.4
0°-60°	421.0	93.0	46.8
0°-90°	452.7	100.0	50.3
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°	452.7	100.0	50.3

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	74	76	88	66	44	8
15°	168	91	78	4	4	59
25°	808	108	10	1	2	412
35°	2053	61	2	1	1	1202
45°	1251	42	20	22	24	1038
55°	448	11	7	7	9	401
65°	29	7	7	7	8	58
75°	3	6	7	7	7	3
85°	7	11	12	12	12	6
90°	4	14	13	14	15	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	75	75	75	75	75	75	75	75	75	75	75
5°	74	74	76	76	78	76	74	78	76	83	88
10°	111	109	109	106	90	78	76	81	81	83	82
15°	168	163	151	141	124	91	78	76	74	76	78
17.5°	242	242	207	171	141	99	81	77	68	66	57
20°	375	367	312	227	156	108	76	59	57	45	41
22.5°	493	492	429	317	183	118	59	47	45	39	24
25°	808	705	568	392	208	108	51	35	26	14	10
27.5°	1202	1117	899	462	235	99	42	20	10	5	4
30°	1451	1434	1117	539	228	98	30	15	8	4	3
32.5°	1786	1787	1401	602	196	74	21	12	6	3	2
35°	2053	1969	1585	671	176	61	17	9	5	2	2
37.5°	2087	2081	1635	686	147	49	17	7	6	9	8
40°	1920	1903	1486	637	131	49	22	12	13	20	18
42.5°	1685	1635	1334	544	117	49	28	18	20	24	22
45°	1251	1301	1066	368	96	42	26	17	20	22	20
47.5°	1083	1100	815	279	72	33	22	17	16	17	16
50°	883	890	498	188	56	20	14	12	12	12	12
52.5°	582	632	414	134	44	13	8	8	7	7	8
55°	448	431	241	88	25	11	8	7	7	7	7
57.5°	255	265	145	58	17	9	7	8	8	7	7
60°	178	175	89	41	12	9	8	8	8	7	7
65°	29	37	24	10	7	7	7	7	7	7	7
70°	2	5	5	5	5	5	5	5	5	5	5
75°	3	9	7	6	7	6	7	7	7	6	7
80°	5	10	8	10	10	8	8	8	8	10	10
85°	7	10	12	13	12	11	11	9	11	13	12
90°	4	11	14	14	13	14	14	12	13	13	13



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	75	75	75	75	75	75	75	75	75	75
5°	89	88	83	74	66	50	43	44	41	44
10°	83	65	41	13	7	6	5	5	5	5
15°	64	23	7	4	4	4	4	4	4	4
17.5°	49	8	5	5	4	3	2	2	2	2
20°	23	5	4	4	3	2	2	2	2	2
22.5°	11	4	3	2	2	2	1	1	1	2
25°	5	3	3	2	1	1	1	1	1	2
27.5°	3	2	2	1	1	1	1	2	1	1
30°	2	2	2	1	1	1	1	1	1	1
32.5°	2	1	1	1	1	1	1	1	1	1
35°	1	1	3	1	1	1	1	2	1	1
37.5°	2	4	6	3	4	4	3	7	5	1
40°	12	10	11	17	16	13	13	15	14	12
42.5°	21	15	16	25	23	20	19	20	20	23
45°	22	17	16	24	22	19	19	18	20	24
47.5°	17	15	15	18	17	16	17	15	17	19
50°	12	11	11	12	12	12	12	12	12	13
52.5°	7	7	7	7	7	8	9	9	9	8
55°	7	7	7	7	7	8	8	9	9	9
57.5°	7	7	7	8	8	9	8	8	8	8
60°	7	7	7	8	8	9	8	8	8	8
65°	7	7	7	7	7	7	7	7	8	8
70°	5	5	5	5	5	5	6	6	6	7
75°	6	8	8	6	7	8	8	8	7	7
80°	8	9	10	9	9	10	10	10	10	9
85°	12	10	11	13	12	11	12	12	12	12
90°	14	12	11	15	14	13	14	12	13	15

(END OF REPORT)