

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: E395762

Luminaire Tested: **H7-76**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395762  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7-76  
Description: HALO RECESSED INC - H7 ADJ, GIMBAL RING, 0 DEG TILT  
Light Source: 150PAR38FL, 1740 LUMENS  
Ballast/Driver: -

**Summary**

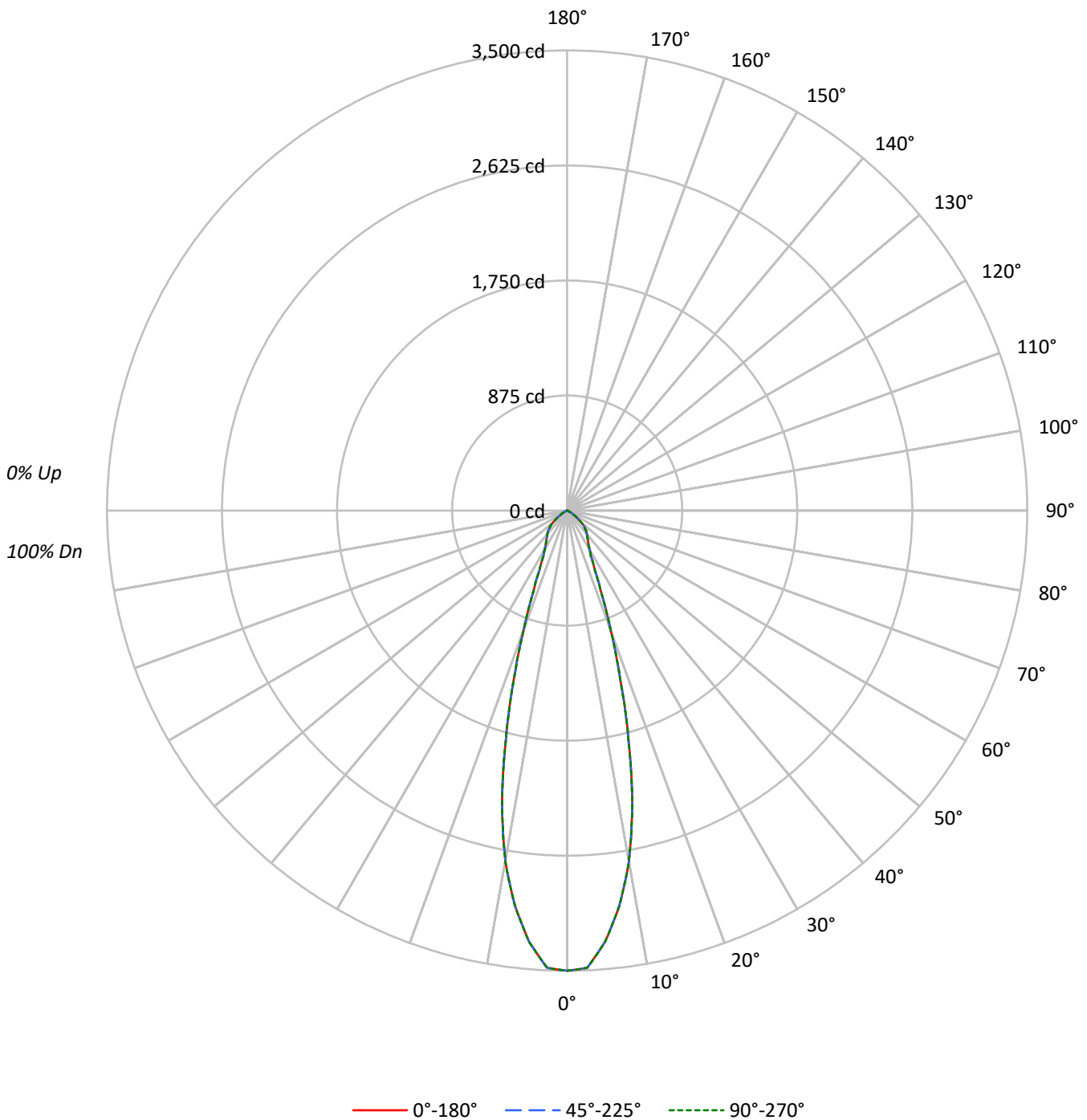
Lumens per Lamp: 1740 (1 lamp)  
Luminaire Lumens: 1454.9 lumens  
Efficiency: 83.6%  
Efficacy: 9.7 lumens/watt  
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.5  
Luminous Opening: (L: 0 ' x W: -0.37 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 150  
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	0
RCR																				
0	100	100	100	100	97	97	97	97	93	93	93		89	89	89		85	85	85	84
1	95	93	91	89	93	91	89	87	87	86	85		84	83	82		82	81	80	78
2	90	86	83	80	89	85	82	79	82	80	78		80	78	76		77	76	74	73
3	86	81	77	73	84	80	76	73	77	74	72		75	73	70		73	71	69	68
4	82	76	71	68	80	75	71	67	73	69	67		71	68	66		70	67	65	64
5	78	71	67	63	77	71	66	63	69	65	62		68	64	62		66	64	61	60
6	75	67	63	59	73	67	62	59	66	62	59		64	61	58		63	60	58	57
7	71	64	59	56	70	63	59	56	62	58	55		61	58	55		60	57	55	54
8	68	61	56	53	67	60	56	53	59	55	53		59	55	52		58	55	52	51
9	66	58	53	50	65	58	53	50	57	53	50		56	53	50		56	52	50	49
10	63	56	51	48	62	55	51	48	55	51	48		54	50	48		53	50	48	47

**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°	295.9	20.3	17.0
10°-20°	489.7	33.7	28.1
20°-30°	249.5	17.1	14.3
30°-40°	173.9	12.0	10.0
40°-50°	147.4	10.1	8.5
50°-60°	73.5	5.1	4.2
60°-70°	19.7	1.4	1.1
70°-80°	4.5	0.3	0.3
80°-90°	0.8	0.1	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°	1035.1	71.1	59.5
0°-40°	1209.0	83.1	69.5
0°-60°	1429.9	98.3	82.2
0°-90°	1454.9	100.0	83.6
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°	1454.9	100.0	83.6

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3500	3500	3500	3500	3500	
5°	3296	3296	3296	3296	3296	296
15°	1804	1804	1804	1804	1804	490
25°	499	499	499	499	499	249
35°	276	276	276	276	276	174
45°	193	193	193	193	193	147
55°	79	79	79	79	79	74
65°	18	18	18	18	18	20
75°	4	4	4	4	4	4
85°	0	0	0	0	0	1
90°	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°	3500	3500	3500	3500	3500	3500	3500	3500	3500
2.5°	3481	3481	3481	3481	3481	3481	3481	3481	3481
5°	3296	3296	3296	3296	3296	3296	3296	3296	3296
7.5°	3036	3036	3036	3036	3036	3036	3036	3036	3036
10°	2708	2708	2708	2708	2708	2708	2708	2708	2708
12.5°	2289	2289	2289	2289	2289	2289	2289	2289	2289
15°	1804	1804	1804	1804	1804	1804	1804	1804	1804
17.5°	1345	1345	1345	1345	1345	1345	1345	1345	1345
20°	970	970	970	970	970	970	970	970	970
22.5°	681	681	681	681	681	681	681	681	681
25°	499	499	499	499	499	499	499	499	499
27.5°	393	393	393	393	393	393	393	393	393
30°	339	339	339	339	339	339	339	339	339
32.5°	302	302	302	302	302	302	302	302	302
35°	276	276	276	276	276	276	276	276	276
37.5°	251	251	251	251	251	251	251	251	251
40°	234	234	234	234	234	234	234	234	234
42.5°	217	217	217	217	217	217	217	217	217
45°	193	193	193	193	193	193	193	193	193
47.5°	170	170	170	170	170	170	170	170	170
50°	139	139	139	139	139	139	139	139	139
52.5°	106	106	106	106	106	106	106	106	106
55°	79	79	79	79	79	79	79	79	79
57.5°	57	57	57	57	57	57	57	57	57
60°	40	40	40	40	40	40	40	40	40
62.5°	26	26	26	26	26	26	26	26	26
65°	18	18	18	18	18	18	18	18	18
67.5°	12	12	12	12	12	12	12	12	12
70°	8	8	8	8	8	8	8	8	8
72.5°	5	5	5	5	5	5	5	5	5
75°	4	4	4	4	4	4	4	4	4
77.5°	3	3	3	3	3	3	3	3	3
80°	2	2	2	2	2	2	2	2	2
82.5°	2	2	2	2	2	2	2	2	2
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)