

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: E395763

Luminaire Tested: **H7-76**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395763
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: 150PAR38SP, 1740 LUMENS
Ballast/Driver: -

Summary

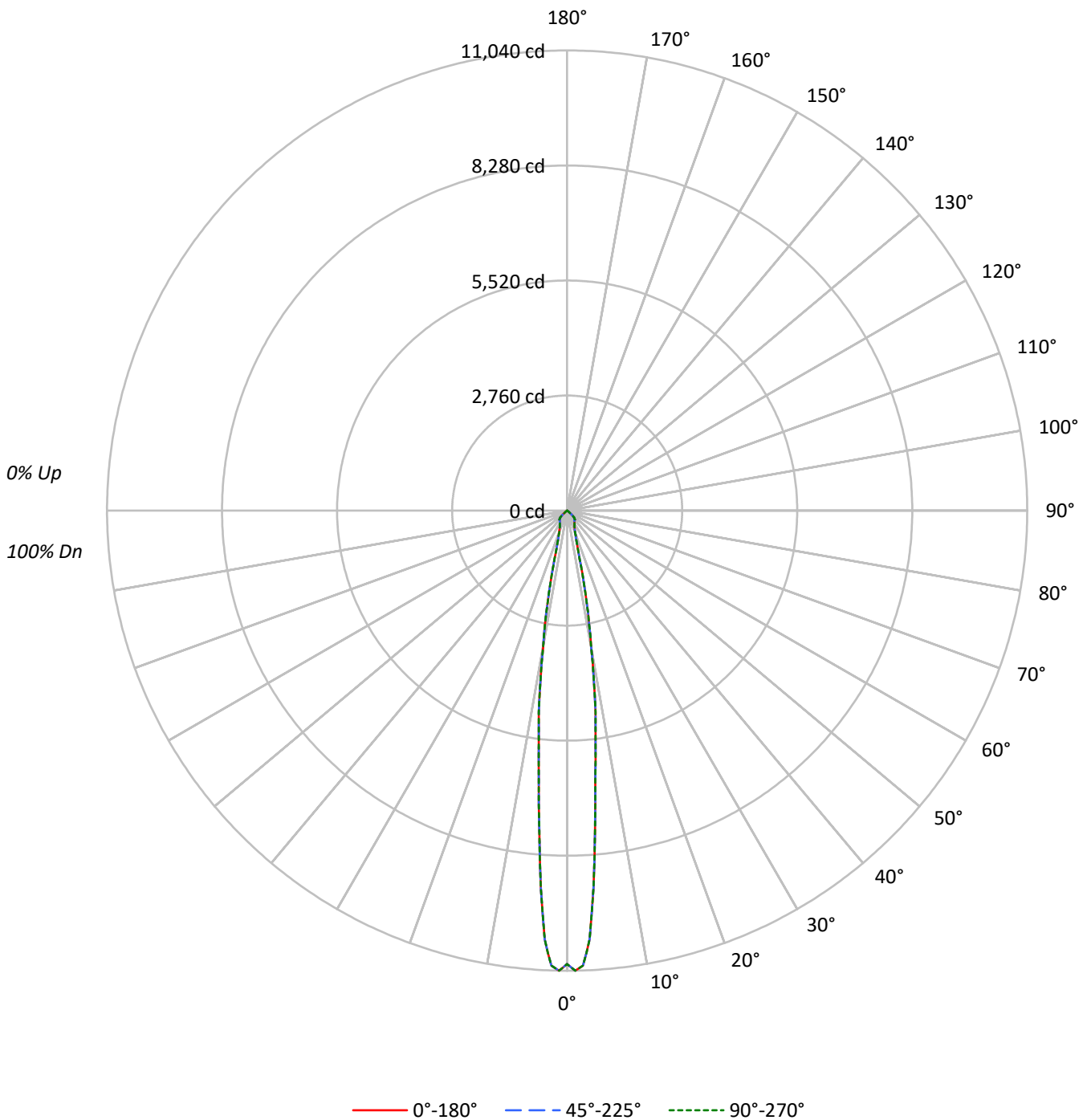
Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 1538.9 lumens
Efficiency: 88.4%
Efficacy: 10.3 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.27
Luminous Opening: (L: 0 ' x W: -0.37 ' x H: 0 '
CIE Type: Direct

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	105	105	105	105	103	103	103	103	98	98	98		94	94	94		90	90	90	88
1	101	99	97	95	99	97	95	94	94	92	91		90	89	88		87	87	86	84
2	97	93	90	88	95	92	89	87	89	87	85		86	85	83		84	83	81	80
3	93	88	85	82	91	87	84	81	85	82	80		83	80	78		81	79	77	76
4	89	84	80	77	88	83	79	76	81	78	75		79	77	74		78	75	74	72
5	86	80	76	72	85	79	75	72	78	74	71		76	73	71		75	72	70	69
6	83	76	72	69	82	76	72	69	75	71	68		73	70	68		72	70	67	66
7	80	73	69	66	79	73	69	66	72	68	65		71	68	65		70	67	65	64
8	77	71	66	63	76	70	66	63	69	66	63		68	65	63		68	65	62	61
9	75	68	64	61	74	68	64	61	67	63	61		66	63	61		66	63	60	59
10	73	66	62	59	72	66	62	59	65	61	59		64	61	59		64	61	59	58

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°	593.6	38.6	34.1
10°-20°	359.4	23.4	20.7
20°-30°	197.3	12.8	11.3
30°-40°	193.7	12.6	11.1
40°-50°	163.1	10.6	9.4
50°-60°	26.5	1.7	1.5
60°-70°	3.7	0.2	0.2
70°-80°	1.6	0.1	0.1
80°-90°	0.0	0.0	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°	1150.2	74.7	66.1
0°-40°	1344.0	87.3	77.2
0°-60°	1533.6	99.7	88.1
0°-90°	1538.9	100.0	88.4
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°	1538.9	100.0	88.4

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10881	10881	10881	10881	10881	
5°	7661	7661	7661	7661	7661	594
15°	1056	1056	1056	1056	1056	359
25°	416	416	416	416	416	197
35°	301	301	301	301	301	194
45°	232	232	232	232	232	163
55°	10	10	10	10	10	27
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	0	0	0	0	0	0
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°	10881	10881	10881	10881	10881	10881	10881	10881	10881
1°	11040	11040	11040	11040	11040	11040	11040	11040	11040
2°	10924	10924	10924	10924	10924	10924	10924	10924	10924
3°	10296	10296	10296	10296	10296	10296	10296	10296	10296
4°	9077	9077	9077	9077	9077	9077	9077	9077	9077
5°	7661	7661	7661	7661	7661	7661	7661	7661	7661
6°	6485	6485	6485	6485	6485	6485	6485	6485	6485
7°	5571	5571	5571	5571	5571	5571	5571	5571	5571
8°	4883	4883	4883	4883	4883	4883	4883	4883	4883
9°	4092	4092	4092	4092	4092	4092	4092	4092	4092
10°	3335	3335	3335	3335	3335	3335	3335	3335	3335
11°	2779	2779	2779	2779	2779	2779	2779	2779	2779
12°	2237	2237	2237	2237	2237	2237	2237	2237	2237
13°	1767	1767	1767	1767	1767	1767	1767	1767	1767
14°	1355	1355	1355	1355	1355	1355	1355	1355	1355
15°	1056	1056	1056	1056	1056	1056	1056	1056	1056
17.5°	703	703	703	703	703	703	703	703	703
20°	555	555	555	555	555	555	555	555	555
22.5°	471	471	471	471	471	471	471	471	471
25°	416	416	416	416	416	416	416	416	416
27.5°	384	384	384	384	384	384	384	384	384
30°	357	357	357	357	357	357	357	357	357
32.5°	326	326	326	326	326	326	326	326	326
35°	301	301	301	301	301	301	301	301	301
37.5°	288	288	288	288	288	288	288	288	288
40°	291	291	291	291	291	291	291	291	291
45°	232	232	232	232	232	232	232	232	232
50°	96	96	96	96	96	96	96	96	96
55°	10	10	10	10	10	10	10	10	10
60°	5	5	5	5	5	5	5	5	5
65°	4	4	4	4	4	4	4	4	4
70°	2	2	2	2	2	2	2	2	2
75°	2	2	2	2	2	2	2	2	2
80°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)