

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: E395898

Luminaire Tested: **H7-426**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395898
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-426
Description: HALO RECESSED INC. - H7 HOUSING, CLEAR SPECULAR REFLECTOR
Light Source: 150R40SP, 1900 LUMEN
Ballast/Driver: -

Summary

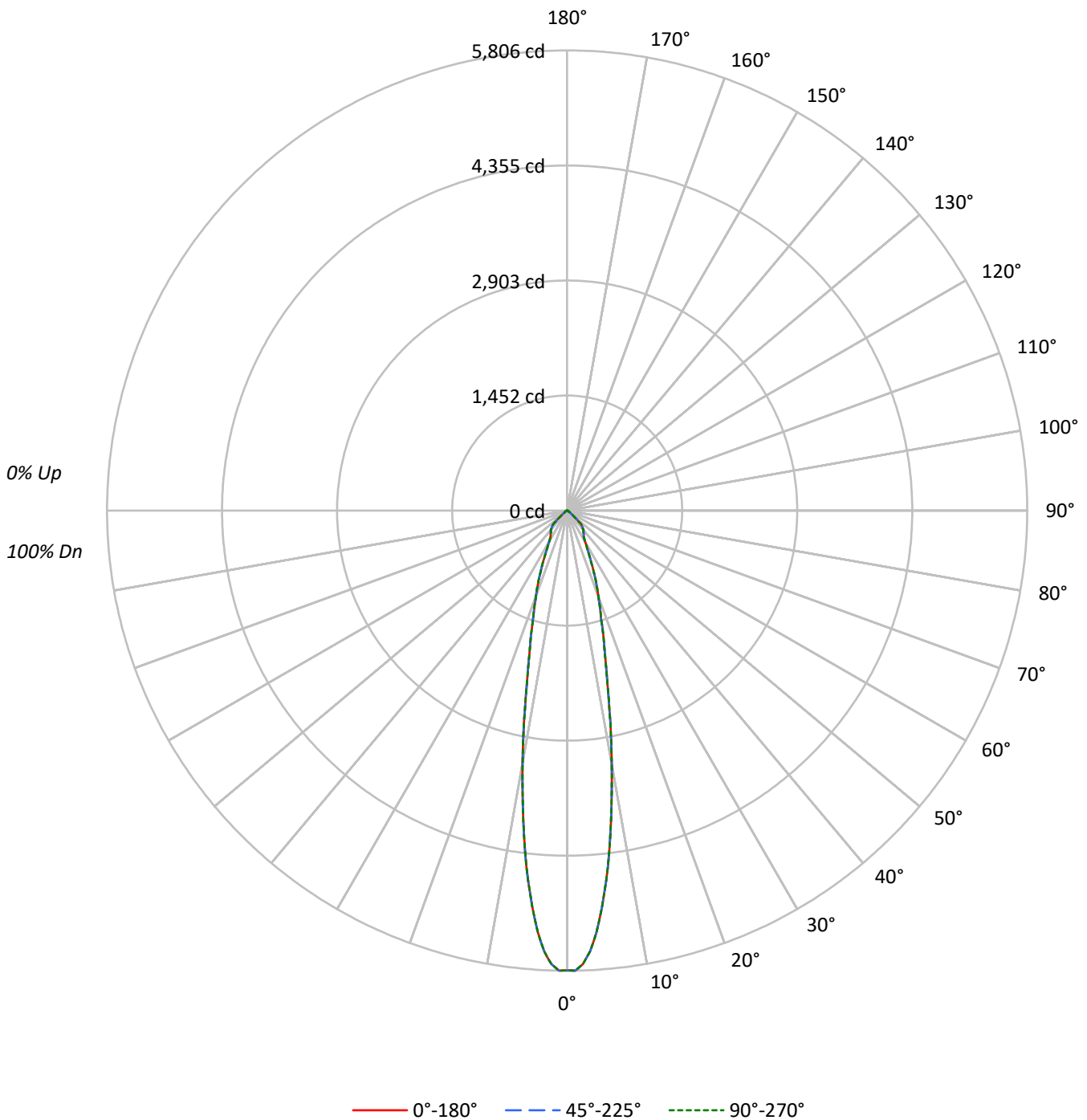
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1758.7 lumens
Efficiency: 92.6%
Efficacy: 11.7 lumens/watt
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.41
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

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	110	110	110	110	108	108	108	108	103	103	103		98	98	98		94	94	94	93
1	105	103	101	99	103	101	99	97	97	95	94		94	92	91		90	89	89	87
2	100	96	92	89	98	94	91	88	92	89	87		89	87	85		86	84	83	81
3	96	90	86	82	94	89	85	82	86	83	80		84	81	79		82	80	78	76
4	91	85	80	76	90	84	79	76	82	78	75		80	77	74		78	76	73	72
5	87	80	75	71	86	79	75	71	78	74	70		76	73	70		75	72	69	68
6	84	76	71	67	82	75	70	67	74	70	67		73	69	66		71	68	66	64
7	80	72	67	64	79	72	67	63	70	66	63		69	66	63		68	65	62	61
8	77	69	64	60	76	68	64	60	67	63	60		66	63	60		66	62	60	58
9	74	66	61	58	73	65	61	57	65	60	57		64	60	57		63	60	57	56
10	71	63	58	55	70	63	58	55	62	58	55		61	57	55		61	57	55	53

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°	420.0	23.9	22.1
10°-20°	524.0	29.8	27.6
20°-30°	337.5	19.2	17.8
30°-40°	230.1	13.1	12.1
40°-50°	176.0	10.0	9.3
50°-60°	42.2	2.4	2.2
60°-70°	18.0	1.0	0.9
70°-80°	8.4	0.5	0.4
80°-90°	2.4	0.1	0.1
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°	1281.5	72.9	67.4
0°-40°	1511.6	85.9	79.6
0°-60°	1729.8	98.4	91.0
0°-90°	1758.7	100.0	92.6
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°	1758.7	100.0	92.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5802	5802	5802	5802	5802	
5°	5023	5023	5023	5023	5023	420
15°	1817	1817	1817	1817	1817	524
25°	721	721	721	721	721	338
35°	363	363	363	363	363	230
45°	254	254	254	254	254	176
55°	36	36	36	36	36	42
65°	18	18	18	18	18	18
75°	8	8	8	8	8	8
85°	2	2	2	2	2	2
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°	5802	5802	5802	5802	5802	5802	5802	5802	5802
1°	5806	5806	5806	5806	5806	5806	5806	5806	5806
2°	5724	5724	5724	5724	5724	5724	5724	5724	5724
3°	5567	5567	5567	5567	5567	5567	5567	5567	5567
4°	5331	5331	5331	5331	5331	5331	5331	5331	5331
5°	5023	5023	5023	5023	5023	5023	5023	5023	5023
6°	4707	4707	4707	4707	4707	4707	4707	4707	4707
7°	4346	4346	4346	4346	4346	4346	4346	4346	4346
8°	3967	3967	3967	3967	3967	3967	3967	3967	3967
9°	3594	3594	3594	3594	3594	3594	3594	3594	3594
10°	3236	3236	3236	3236	3236	3236	3236	3236	3236
11°	2902	2902	2902	2902	2902	2902	2902	2902	2902
12°	2571	2571	2571	2571	2571	2571	2571	2571	2571
13°	2268	2268	2268	2268	2268	2268	2268	2268	2268
14°	2029	2029	2029	2029	2029	2029	2029	2029	2029
15°	1817	1817	1817	1817	1817	1817	1817	1817	1817
17.5°	1423	1423	1423	1423	1423	1423	1423	1423	1423
20°	1149	1149	1149	1149	1149	1149	1149	1149	1149
22.5°	925	925	925	925	925	925	925	925	925
25°	721	721	721	721	721	721	721	721	721
27.5°	556	556	556	556	556	556	556	556	556
30°	448	448	448	448	448	448	448	448	448
32.5°	391	391	391	391	391	391	391	391	391
35°	363	363	363	363	363	363	363	363	363
37.5°	337	337	337	337	337	337	337	337	337
40°	319	319	319	319	319	319	319	319	319
45°	254	254	254	254	254	254	254	254	254
50°	92	92	92	92	92	92	92	92	92
55°	36	36	36	36	36	36	36	36	36
60°	26	26	26	26	26	26	26	26	26
65°	18	18	18	18	18	18	18	18	18
70°	11	11	11	11	11	11	11	11	11
75°	8	8	8	8	8	8	8	8	8
80°	5	5	5	5	5	5	5	5	5
85°	2	2	2	2	2	2	2	2	2
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)