

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: E395198

Luminaire Tested: **H7-426**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395198
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: 150PAR38SP, 1740 LUMENS
Ballast/Driver: -

Summary

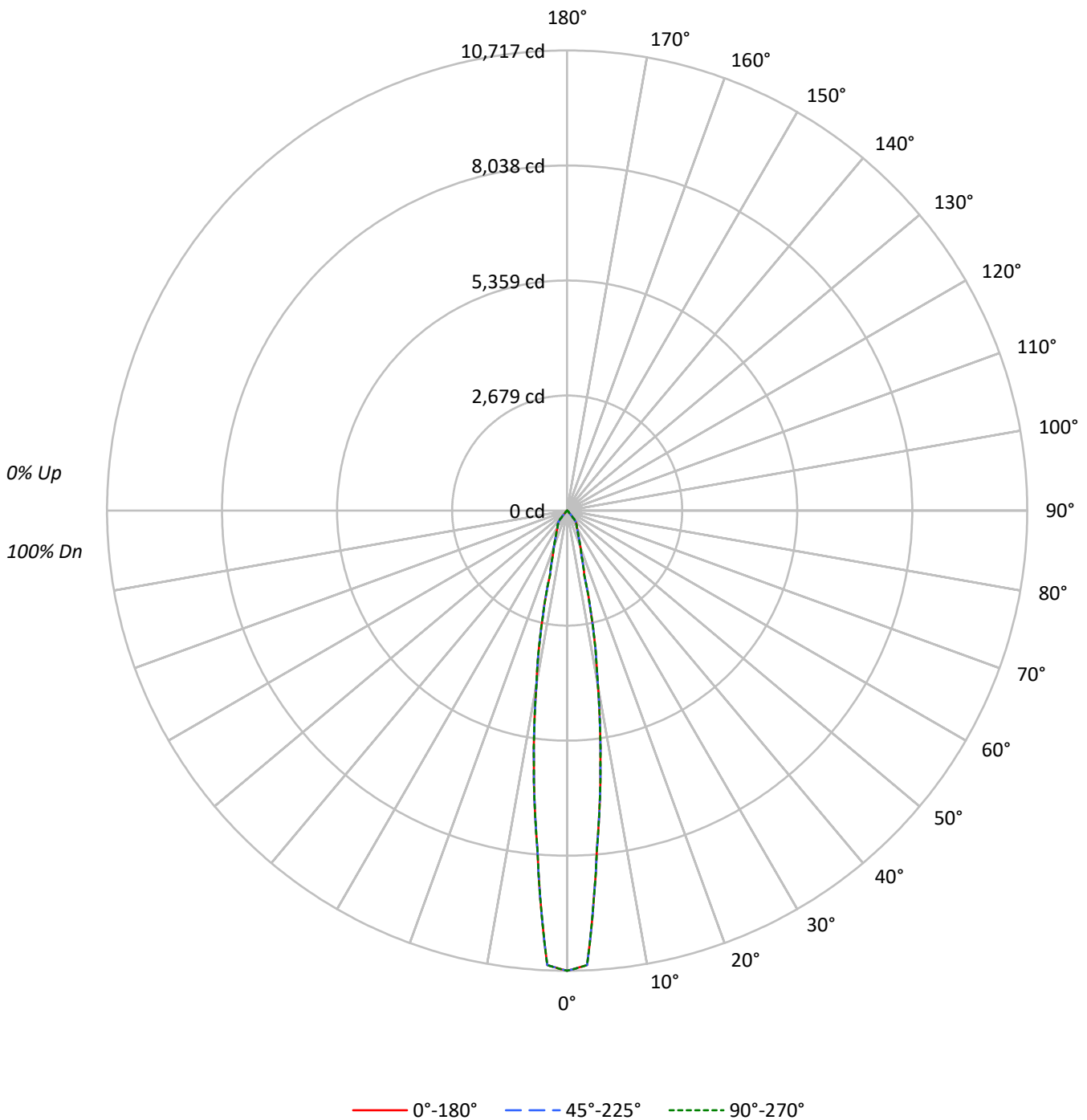
Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 1722.8 lumens
Efficiency: 99.0%
Efficacy: 11.5 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.31
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

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													
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10										
RCR																														
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	101	101	101	99												
1	114	111	109	108	111	109	108	106	105	104	103	102	101	100	98	98	97	95												
2	110	106	103	100	107	104	101	99	101	99	97	98	96	95	95	94	93	91												
3	106	101	97	94	104	99	96	93	97	94	92	95	92	90	92	91	89	88												
4	102	96	92	89	100	95	91	88	93	90	87	91	89	86	90	87	85	84												
5	98	92	88	85	97	91	87	84	90	86	83	88	85	83	87	84	82	81												
6	95	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78												
7	92	85	81	78	91	85	81	78	84	80	77	83	79	77	82	79	76	75												
8	89	82	78	75	88	82	78	75	81	77	74	80	77	74	79	76	74	73												
9	87	80	75	72	86	79	75	72	78	75	72	78	74	72	77	74	72	71												
10	84	77	73	70	84	77	73	70	76	72	70	76	72	70	75	72	70	69												

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°	647.2	37.6	37.2
10°-20°	516.3	30.0	29.7
20°-30°	284.6	16.5	16.4
30°-40°	225.2	13.1	12.9
40°-50°	46.2	2.7	2.7
50°-60°	3.2	0.2	0.2
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
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°	1448.1	84.1	83.2
0°-40°	1673.3	97.1	96.2
0°-60°	1722.8	100.0	99.0
0°-90°	1722.8	100.0	99.0
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°	1722.8	100.0	99.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10717	10717	10717	10717	10717	
5°	7947	7947	7947	7947	7947	647
15°	1548	1548	1548	1548	1548	516
25°	602	602	602	602	602	285
35°	370	370	370	370	370	225
45°	52	52	52	52	52	46
55°	0	0	0	0	0	3
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	10717	10717	10717	10717	10717	10717	10717
2.5°	10596	10596	10596	10596	10596	10596	10596
5°	7947	7947	7947	7947	7947	7947	7947
7.5°	5952	5952	5952	5952	5952	5952	5952
10°	4111	4111	4111	4111	4111	4111	4111
12.5°	2769	2769	2769	2769	2769	2769	2769
15°	1548	1548	1548	1548	1548	1548	1548
17.5°	1127	1127	1127	1127	1127	1127	1127
20°	894	894	894	894	894	894	894
22.5°	722	722	722	722	722	722	722
25°	602	602	602	602	602	602	602
27.5°	516	516	516	516	516	516	516
30°	447	447	447	447	447	447	447
32.5°	413	413	413	413	413	413	413
35°	370	370	370	370	370	370	370
37.5°	353	353	353	353	353	353	353
40°	181	181	181	181	181	181	181
42.5°	61	61	61	61	61	61	61
45°	52	52	52	52	52	52	52
47.5°	34	34	34	34	34	34	34
50°	16	16	16	16	16	16	16
52.5°	7	7	7	7	7	7	7
55°	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0

(END OF REPORT)