

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: E395743

Luminaire Tested: **H7-418**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395743
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-418
Description: HALO RECESSED INC - H7 ADJ, REGRESSED EYEBALL, 0 DEG TILT
Light Source: 75R30SP, 900 LUMENS
Ballast/Driver: -

Summary

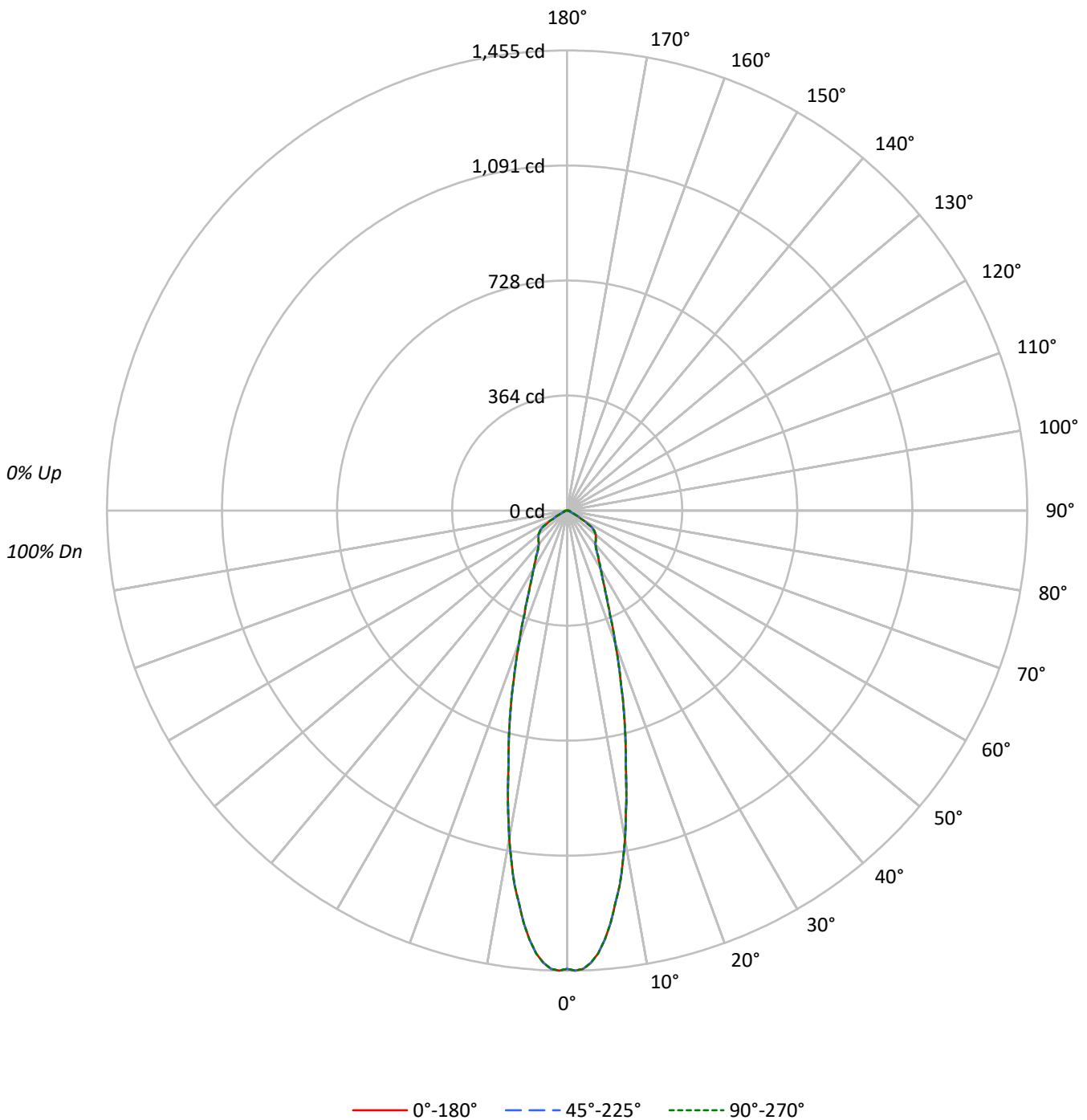
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 774.4 lumens
Efficiency: 86.0%
Efficacy: 10.3 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.52
Luminous Opening: (L: 0 ' x W: -0.33 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
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	102	102	102	102	100	100	100	100	96	96	96		92	92	92		88	88	88	86
1	97	94	91	89	94	92	90	88	88	87	85		85	84	82		82	81	80	78
2	91	86	82	79	89	84	81	78	82	79	76		79	76	74		77	75	73	71
3	86	79	74	70	84	78	73	70	76	72	68		73	70	67		71	69	66	65
4	81	73	68	64	79	72	67	63	70	66	62		68	65	62		67	64	61	59
5	76	68	62	58	75	67	62	58	65	61	57		64	60	57		63	59	56	55
6	72	63	58	54	71	63	57	53	61	57	53		60	56	53		59	55	52	51
7	68	60	54	50	67	59	54	50	58	53	49		57	52	49		56	52	49	48
8	65	56	50	47	64	56	50	47	55	50	46		54	49	46		53	49	46	45
9	62	53	48	44	61	53	47	44	52	47	44		51	47	43		50	46	43	42
10	59	50	45	41	58	50	45	41	49	45	41		48	44	41		48	44	41	40

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°	119.8	15.5	13.3
10°-20°	194.4	25.1	21.6
20°-30°	136.7	17.7	15.2
30°-40°	105.6	13.6	11.7
40°-50°	99.1	12.8	11.0
50°-60°	81.4	10.5	9.0
60°-70°	22.9	3.0	2.5
70°-80°	9.2	1.2	1.0
80°-90°	5.2	0.7	0.6
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°	451.0	58.2	50.1
0°-40°	556.6	71.9	61.8
0°-60°	737.1	95.2	81.9
0°-90°	774.4	100.0	86.0
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°	774.4	100.0	86.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1449	1449	1449	1449	1449	
5°	1362	1362	1362	1362	1362	120
15°	705	705	705	705	705	194
25°	287	287	287	287	287	137
35°	167	167	167	167	167	106
45°	128	128	128	128	128	99
55°	100	100	100	100	100	81
65°	17	17	17	17	17	23
75°	8	8	8	8	8	9
85°	5	5	5	5	5	5
90°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1449	1449	1449	1449	1449	1449	1449	1449	1449
1°	1455	1455	1455	1455	1455	1455	1455	1455	1455
2°	1450	1450	1450	1450	1450	1450	1450	1450	1450
3°	1432	1432	1432	1432	1432	1432	1432	1432	1432
4°	1404	1404	1404	1404	1404	1404	1404	1404	1404
5°	1362	1362	1362	1362	1362	1362	1362	1362	1362
6°	1313	1313	1313	1313	1313	1313	1313	1313	1313
7°	1251	1251	1251	1251	1251	1251	1251	1251	1251
8°	1196	1196	1196	1196	1196	1196	1196	1196	1196
9°	1125	1125	1125	1125	1125	1125	1125	1125	1125
10°	1053	1053	1053	1053	1053	1053	1053	1053	1053
11°	975	975	975	975	975	975	975	975	975
12°	900	900	900	900	900	900	900	900	900
13°	826	826	826	826	826	826	826	826	826
14°	763	763	763	763	763	763	763	763	763
15°	705	705	705	705	705	705	705	705	705
17.5°	560	560	560	560	560	560	560	560	560
20°	443	443	443	443	443	443	443	443	443
22.5°	352	352	352	352	352	352	352	352	352
25°	287	287	287	287	287	287	287	287	287
27.5°	242	242	242	242	242	242	242	242	242
30°	211	211	211	211	211	211	211	211	211
32.5°	186	186	186	186	186	186	186	186	186
35°	167	167	167	167	167	167	167	167	167
37.5°	150	150	150	150	150	150	150	150	150
40°	139	139	139	139	139	139	139	139	139
45°	128	128	128	128	128	128	128	128	128
50°	118	118	118	118	118	118	118	118	118
55°	100	100	100	100	100	100	100	100	100
60°	47	47	47	47	47	47	47	47	47
65°	17	17	17	17	17	17	17	17	17
70°	12	12	12	12	12	12	12	12	12
75°	8	8	8	8	8	8	8	8	8
80°	7	7	7	7	7	7	7	7	7
85°	5	5	5	5	5	5	5	5	5
90°	2	2	2	2	2	2	2	2	2

(END OF REPORT)