

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: E395201

Luminaire Tested: **H1499-1419**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395201
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H1499-1419
Description: HALO RECESSED INC - LV, 4" PINSPOT BAFFLE
Light Source: 50MR16NFL, 900 LUMENS
Ballast/Driver: -

Summary

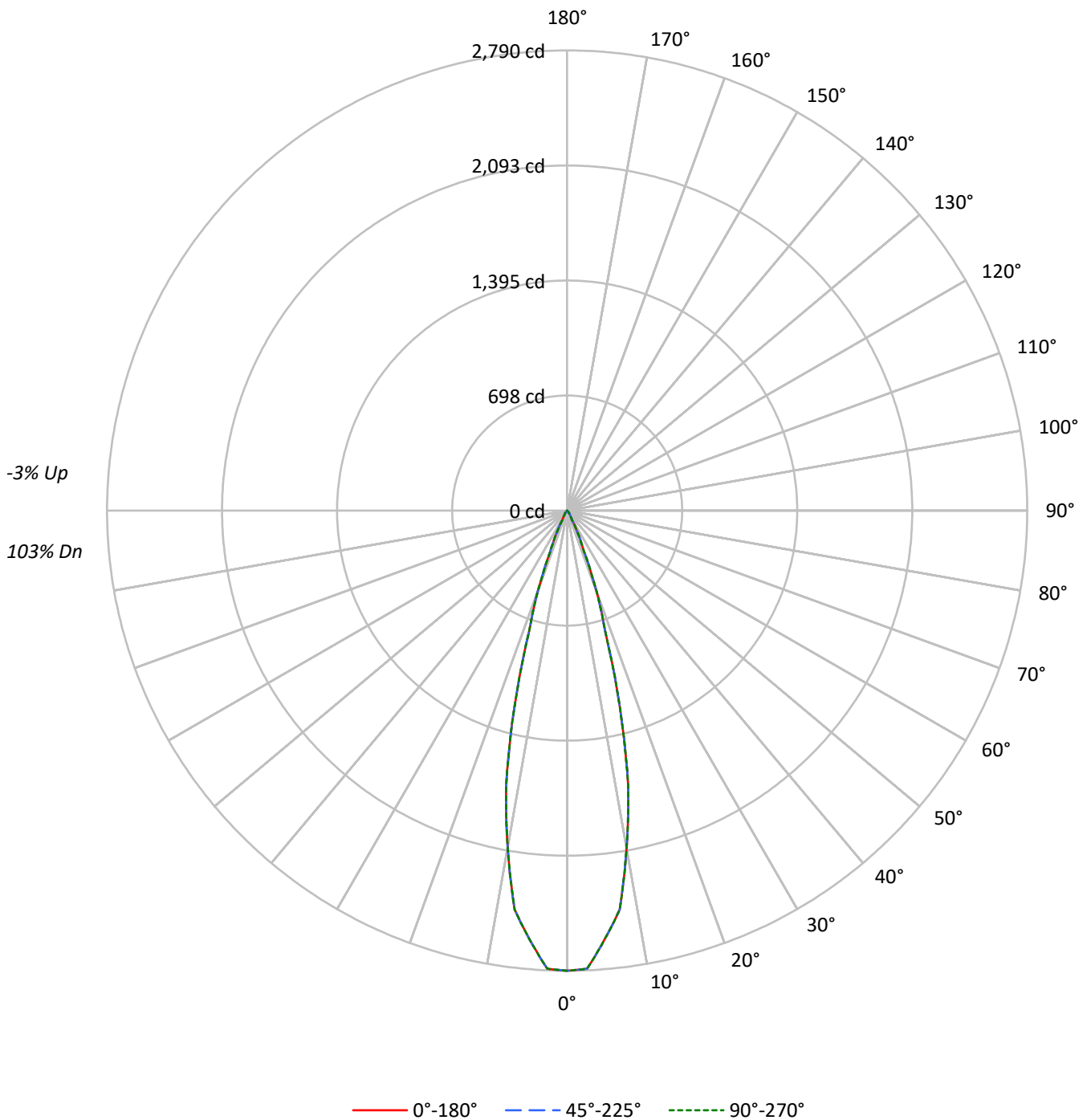
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 674.5 lumens
Efficiency: 74.9%
Efficacy: 11.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.44
Luminous Opening: (L: 0 ' x W: -0.16 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 60
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	91	91	91	91	89	89	89	89	85	85	85	82	82	82	78	78	78	77	77	77	77
1	88	87	85	84	87	85	84	83	82	81	80	79	79	78	77	76	76	74	74	74	74
2	86	83	81	79	84	82	80	78	79	78	76	77	76	75	75	74	73	72	72	72	72
3	83	79	77	75	82	78	76	74	77	75	73	75	73	72	73	72	71	70	70	70	70
4	80	76	73	71	79	76	73	71	74	72	70	73	71	69	71	70	68	68	68	68	68
5	78	74	71	68	77	73	70	68	72	69	67	71	69	67	70	68	66	66	66	66	66
6	76	71	68	66	75	71	68	66	70	67	65	69	66	65	68	66	64	64	64	64	64
7	74	69	66	64	73	69	66	63	68	65	63	67	65	63	66	64	63	62	62	62	62
8	72	67	64	62	71	66	64	61	66	63	61	65	63	61	65	62	61	60	60	60	60
9	70	65	62	60	69	65	62	60	64	61	60	63	61	59	63	61	59	58	58	58	58
10	68	63	60	58	68	63	60	58	62	60	58	62	59	58	61	59	58	57	57	57	57

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°	235.5	34.9	26.2
10°-20°	333.5	49.4	37.1
20°-30°	102.2	15.1	11.4
30°-40°	17.7	2.6	2.0
40°-50°	2.5	0.4	0.3
50°-60°	0.0	0.0	0.0
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°	671.2	99.5	74.6
0°-40°	688.9	102.1	76.5
0°-60°	691.4	102.5	76.8
0°-90°	691.4	102.5	76.8
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°	674.5	100.0	74.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2790	2790	2790	2790	2790	
5°	2610	2610	2610	2610	2610	235
15°	1236	1236	1236	1236	1236	334
25°	164	164	164	164	164	102
35°	25	25	25	25	25	18
45°	0	0	0	0	0	2
55°	0	0	0	0	0	0
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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2790	2790	2790	2790	2790	2790	2790	2790	2790	2790	2790
2.5°	2780	2780	2780	2780	2780	2780	2780	2780	2780	2780	2780
7.5°	2440	2440	2440	2440	2440	2440	2440	2440	2440	2440	2440
12.5°	1710	1710	1710	1710	1710	1710	1710	1710	1710	1710	1710
17.5°	763	763	763	763	763	763	763	763	763	763	763
22.5°	268	268	268	268	268	268	268	268	268	268	268
27.5°	60	60	60	60	60	60	60	60	60	60	60
32.5°	30	30	30	30	30	30	30	30	30	30	30
37.5°	20	20	20	20	20	20	20	20	20	20	20
42.5°	7	7	7	7	7	7	7	7	7	7	7
45°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2790	2790	2790	2790	2790	2790	2790	2790	2790	2790
2.5°	2780	2780	2780	2780	2780	2780	2780	2780	2780	2780
7.5°	2440	2440	2440	2440	2440	2440	2440	2440	2440	2440
12.5°	1710	1710	1710	1710	1710	1710	1710	1710	1710	1710
17.5°	763	763	763	763	763	763	763	763	763	763
22.5°	268	268	268	268	268	268	268	268	268	268
27.5°	60	60	60	60	60	60	60	60	60	60
32.5°	30	30	30	30	30	30	30	30	30	30
37.5°	20	20	20	20	20	20	20	20	20	20
42.5°	7	7	7	7	7	7	7	7	7	7
45°	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)