

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: E395206

Luminaire Tested: **H1499-1419**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395206  
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: 50MR16FL, 900 LUMENS  
Ballast/Driver: -

**Summary**

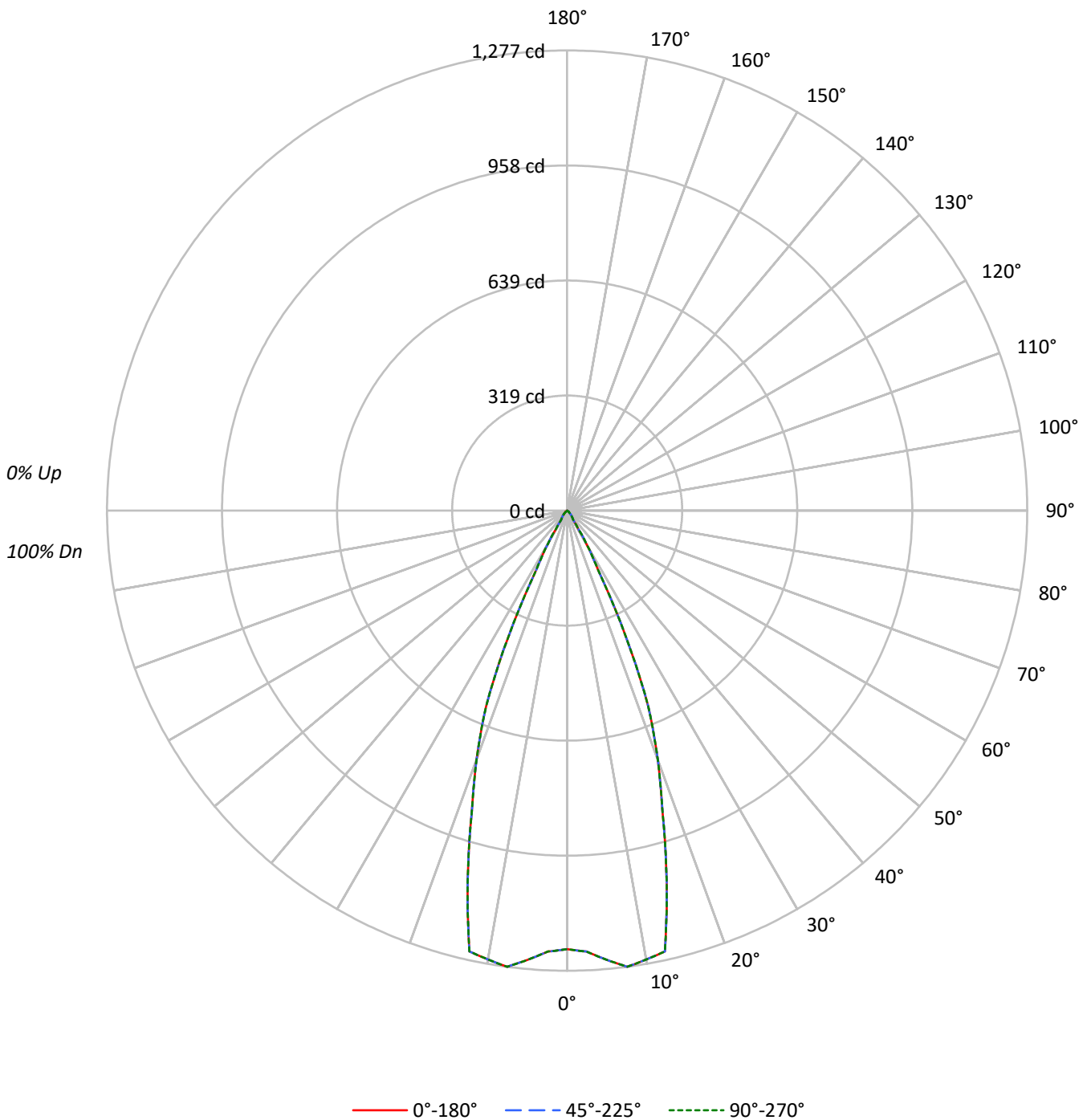
Lumens per Lamp: 900 (1 lamp)  
Luminaire Lumens: 616.7 lumens  
Efficiency: 68.5%  
Efficacy: 10.3 lumens/watt  
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.65  
Luminous Opening: (L: 0 ' x W: -0.16 ' x H: 0 '  
CIE Type: Direct

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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	81	81	81	81	79	79	79	79	76	76	76		73	73	73		70	70	70	68
1	78	77	75	74	77	75	74	73	72	71	70		70	69	68		68	67	66	65
2	75	72	70	68	74	71	69	67	69	67	66		67	66	65		65	64	63	62
3	72	69	66	64	71	68	65	63	66	64	62		65	63	61		63	62	60	59
4	70	65	62	60	68	65	62	60	63	61	59		62	60	58		61	59	58	57
5	67	62	59	57	66	62	59	57	61	58	56		60	57	56		59	57	55	54
6	65	60	56	54	64	59	56	54	58	56	54		57	55	53		57	54	53	52
7	62	57	54	52	61	57	54	51	56	53	51		55	53	51		54	52	51	50
8	60	55	52	49	59	54	51	49	54	51	49		53	51	49		53	50	49	48
9	58	53	49	47	57	52	49	47	52	49	47		51	49	47		51	48	47	46
10	56	51	47	45	55	50	47	45	50	47	45		49	47	45		49	47	45	44

**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°	120.1	19.5	13.3
10°-20°	280.6	45.5	31.2
20°-30°	171.2	27.8	19.0
30°-40°	33.1	5.4	3.7
40°-50°	8.3	1.4	0.9
50°-60°	1.1	0.2	0.1
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°	571.9	92.7	63.5
0°-40°	605.0	98.1	67.2
0°-60°	614.4	99.6	68.3
0°-90°	614.4	99.6	68.3
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°	616.7	100.0	68.5

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1217	1217	1217	1217	1217	
5°	1251	1251	1251	1251	1251	120
15°	1066	1066	1066	1066	1066	281
25°	386	386	386	386	386	171
35°	27	27	27	27	27	33
45°	10	10	10	10	10	8
55°	0	0	0	0	0	1
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°	1217	1217	1217	1217	1217	1217	1217	1217	1217	1217	1217
2.5°	1225	1225	1225	1225	1225	1225	1225	1225	1225	1225	1225
7.5°	1277	1277	1277	1277	1277	1277	1277	1277	1277	1277	1277
12.5°	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253
17.5°	880	880	880	880	880	880	880	880	880	880	880
22.5°	588	588	588	588	588	588	588	588	588	588	588
27.5°	184	184	184	184	184	184	184	184	184	184	184
32.5°	32	32	32	32	32	32	32	32	32	32	32
37.5°	22	22	22	22	22	22	22	22	22	22	22
42.5°	14	14	14	14	14	14	14	14	14	14	14
47.5°	7	7	7	7	7	7	7	7	7	7	7
52.5°	3	3	3	3	3	3	3	3	3	3	3
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°	1217	1217	1217	1217	1217	1217	1217	1217	1217	1217
2.5°	1225	1225	1225	1225	1225	1225	1225	1225	1225	1225
7.5°	1277	1277	1277	1277	1277	1277	1277	1277	1277	1277
12.5°	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253
17.5°	880	880	880	880	880	880	880	880	880	880
22.5°	588	588	588	588	588	588	588	588	588	588
27.5°	184	184	184	184	184	184	184	184	184	184
32.5°	32	32	32	32	32	32	32	32	32	32
37.5°	22	22	22	22	22	22	22	22	22	22
42.5°	14	14	14	14	14	14	14	14	14	14
47.5°	7	7	7	7	7	7	7	7	7	7
52.5°	3	3	3	3	3	3	3	3	3	3
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)