

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: E395203

Luminaire Tested: **H1499-1419**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395203
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: 50MR16NSP, 900 LUMENS
Ballast/Driver: -

Summary

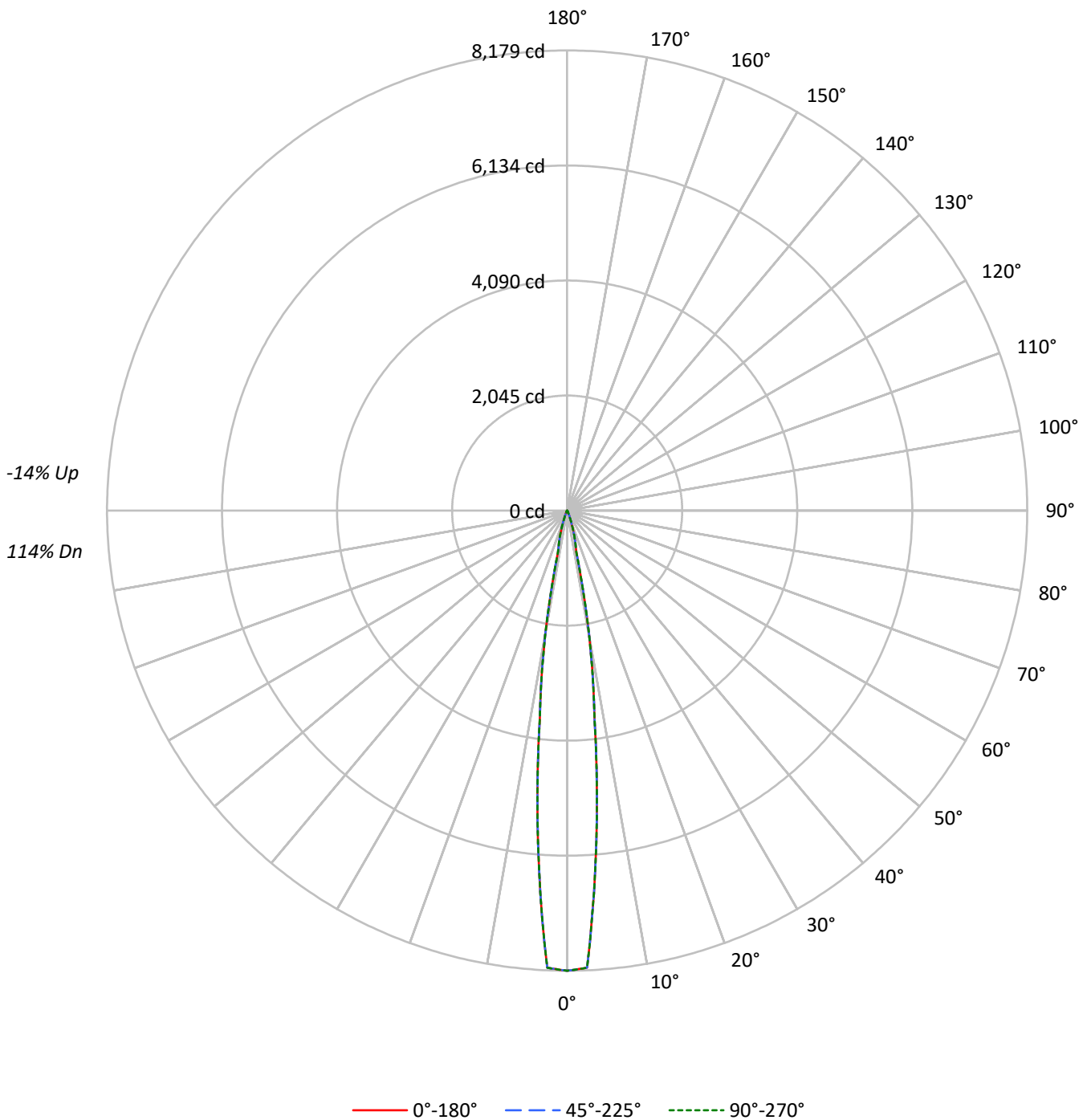
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 678.1 lumens
Efficiency: 75.3%
Efficacy: 11.3 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25
Luminous Opening: (L: 0 ' x W: -0.16 ' x H: 0 '
CIE Type: Direct

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	103	103	103	103	100	100	100	100	96	96	96		92	92	92		88	88	88	86
1	100	98	97	96	98	96	95	94	93	92	91		90	89	88		87	86	86	85
2	97	95	92	91	95	93	91	90	91	89	88		88	87	86		86	85	84	83
3	95	92	89	87	93	91	88	86	88	87	85		87	85	84		85	84	83	82
4	93	89	86	84	92	88	86	84	87	84	83		85	83	82		84	82	81	80
5	91	87	84	82	90	86	84	82	85	83	81		84	82	80		83	81	80	79
6	89	85	82	80	88	84	82	80	83	81	79		82	80	79		81	80	78	78
7	87	83	80	78	87	83	80	78	82	80	78		81	79	78		80	79	77	76
8	86	82	79	77	85	81	79	77	80	78	77		80	78	76		79	77	76	75
9	85	80	77	76	84	80	77	76	79	77	75		79	77	75		78	76	75	74
10	83	79	76	74	83	79	76	74	78	76	74		78	75	74		77	75	74	73

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°	456.8	67.4	50.8
10°-20°	270.3	39.9	30.0
20°-30°	38.1	5.6	4.2
30°-40°	8.9	1.3	1.0
40°-50°	1.0	0.2	0.1
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°	765.2	112.8	85.0
0°-40°	774.2	114.2	86.0
0°-60°	775.2	114.3	86.1
0°-90°	775.2	114.3	86.1
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°	678.1	100.0	75.3

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8179	8179	8179	8179	8179	
5°	5934	5934	5934	5934	5934	457
15°	527	527	527	527	527	270
25°	46	46	46	46	46	38
35°	14	14	14	14	14	9
45°	0	0	0	0	0	1
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°	8179	8179	8179	8179	8179	8179	8179	8179	8179	8179	8179
2.5°	8133	8133	8133	8133	8133	8133	8133	8133	8133	8133	8133
7.5°	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734
12.5°	749	749	749	749	749	749	749	749	749	749	749
17.5°	305	305	305	305	305	305	305	305	305	305	305
22.5°	65	65	65	65	65	65	65	65	65	65	65
27.5°	26	26	26	26	26	26	26	26	26	26	26
32.5°	18	18	18	18	18	18	18	18	18	18	18
37.5°	11	11	11	11	11	11	11	11	11	11	11
42.5°	0	0	0	0	0	0	0	0	0	0	0
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°	8179	8179	8179	8179	8179	8179	8179	8179	8179	8179
2.5°	8133	8133	8133	8133	8133	8133	8133	8133	8133	8133
7.5°	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734
12.5°	749	749	749	749	749	749	749	749	749	749
17.5°	305	305	305	305	305	305	305	305	305	305
22.5°	65	65	65	65	65	65	65	65	65	65
27.5°	26	26	26	26	26	26	26	26	26	26
32.5°	18	18	18	18	18	18	18	18	18	18
37.5°	11	11	11	11	11	11	11	11	11	11
42.5°	0	0	0	0	0	0	0	0	0	0
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)