

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: P123723

Luminaire Tested: **EL406935-TL403BBS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P123723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13989)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: EL406935-TL403BBS  
Description: HALO 4-INCH RECESSED LED DOWNLIGHT  
BLACK BAFFLE, SOLITE® LENS AND WHITE TRIM RING  
Light Source: (1)SURFACE MOUNT LED, 3500K CCT, 90CRI  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

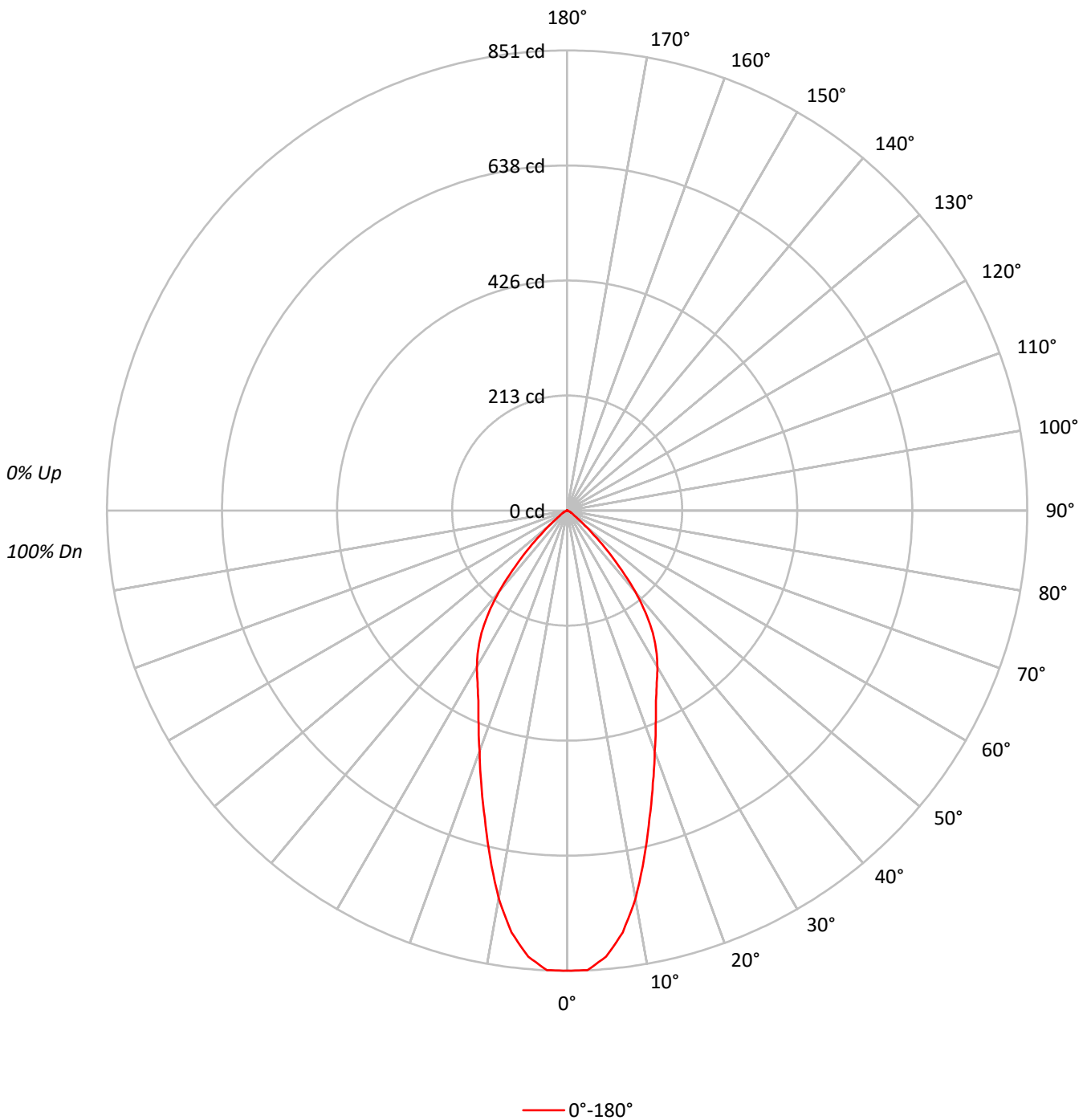
Lumens per Lamp: N/A  
Luminaire Lumens: 700.0 lumens  
Efficiency: N/A  
Efficacy: 53.8 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.83  
Luminous Opening: Circular (Dia: 0.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 13  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85	83	80	78
4	95	87	81	77	94	86	81	76	84	79	76		82	78	75		80	77	74	72
5	90	81	75	70	89	80	74	70	78	73	69		77	72	69		75	71	68	67
6	85	76	69	65	84	75	69	65	73	68	64		72	67	64		71	66	63	62
7	81	71	64	60	79	70	64	60	69	63	59		68	63	59		66	62	59	57
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63	58	55	53
9	73	62	56	52	71	62	56	52	61	55	52		60	55	51		59	55	51	50
10	69	59	53	49	68	58	52	49	58	52	48		57	52	48		56	51	48	47

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	137067
5°	133903
10°	119142
15°	98154
20°	81195
25°	68970
30°	62096
35°	54360
40°	41262
45°	23945
50°	10877
55°	4859
60°	3158
65°	2478
70°	1036
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.8	10.8
10°-20°	164.6	23.5
20°-30°	180.8	25.8
30°-40°	169.0	24.1
40°-50°	83.9	12.0
50°-60°	18.6	2.7
60°-70°	6.6	0.9
70°-80°	0.6	0.1
80°-90°	0.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	421.2	60.2
0°-40°	590.2	84.3
0°-60°	692.6	98.9
0°-90°	700.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	851	
5°	828	76
15°	588	165
25°	388	181
35°	276	169
45°	105	84
55°	17	19
65°	6	7
75°	0	1
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	850.8
2.5°	850.8
5°	828.0
7.5°	786.8
10°	728.3
12.5°	657.9
15°	588.5
17.5°	527.8
20°	473.6
22.5°	428.1
25°	388.0
27.5°	358.7
30°	333.8
32.5°	306.7
35°	276.4
37.5°	238.4
40°	196.2
42.5°	149.6
45°	105.1
47.5°	67.2
50°	43.4
52.5°	26.0
55°	17.3
57.5°	14.1
60°	9.8
62.5°	8.7
65°	6.5
67.5°	5.4
70°	2.2
72.5°	1.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	1.1
90°	0.0

(END OF REPORT)