

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: P123721

Luminaire Tested: **EL406927-TL403BBS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P123721  
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: EL406927-TL403BBS  
Description: HALO 4-INCH RECESSED LED DOWNLIGHT  
BLACK BAFFLE, SOLITE® LENS AND WHITE TRIM RING  
Light Source: (1)SURFACE MOUNT LED, 2700K CCT, 90CRI  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

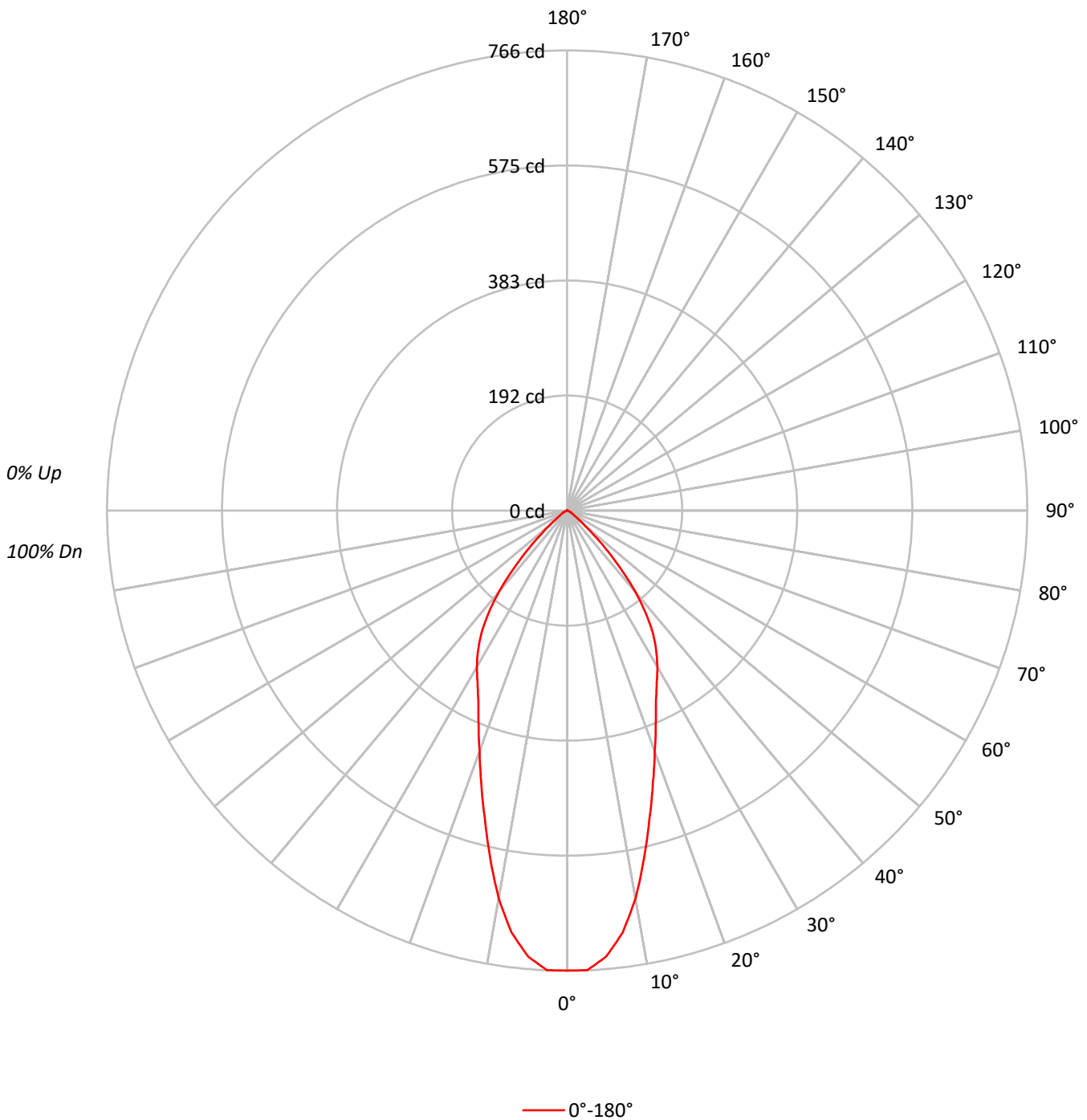
Lumens per Lamp: N/A  
Luminaire Lumens: 630.1 lumens  
Efficiency: N/A  
Efficacy: 48.5 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.83  
Luminous Opening: Circular (Dia: 0.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 13  
Input Voltage (V): NR  
Input Current (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	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°	123357
5°	120513
10°	107233
15°	88347
20°	73086
25°	62073
30°	55882
35°	48912
40°	37140
45°	21553
50°	9775
55°	4382
60°	2835
65°	2249
70°	942
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	10.8
10°-20°	148.2	23.5
20°-30°	162.7	25.8
30°-40°	152.1	24.1
40°-50°	75.5	12.0
50°-60°	16.7	2.7
60°-70°	5.9	0.9
70°-80°	0.5	0.1
80°-90°	0.5	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°	379.1	60.2
0°-40°	531.2	84.3
0°-60°	623.3	98.9
0°-90°	630.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	630.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	766	
5°	745	68
15°	530	148
25°	349	163
35°	249	152
45°	95	75
55°	16	17
65°	6	6
75°	0	1
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	765.7
2.5°	765.7
5°	745.2
7.5°	708.2
10°	655.5
12.5°	592.1
15°	529.7
17.5°	475.0
20°	426.3
22.5°	385.3
25°	349.2
27.5°	322.9
30°	300.4
32.5°	276.0
35°	248.7
37.5°	214.6
40°	176.6
42.5°	134.6
45°	94.6
47.5°	60.5
50°	39.0
52.5°	23.4
55°	15.6
57.5°	12.7
60°	8.8
62.5°	7.8
65°	5.9
67.5°	4.9
70°	2.0
72.5°	1.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	1.0
90°	0.0

(END OF REPORT)