

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: P123722

Luminaire Tested: **EL406930-TL403BBS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123722
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: EL406930-TL403BBS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
BLACK BAFFLE, SOLITE® LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 3000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 690.0 lumens
Efficiency: N/A
Efficacy: 53.1 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

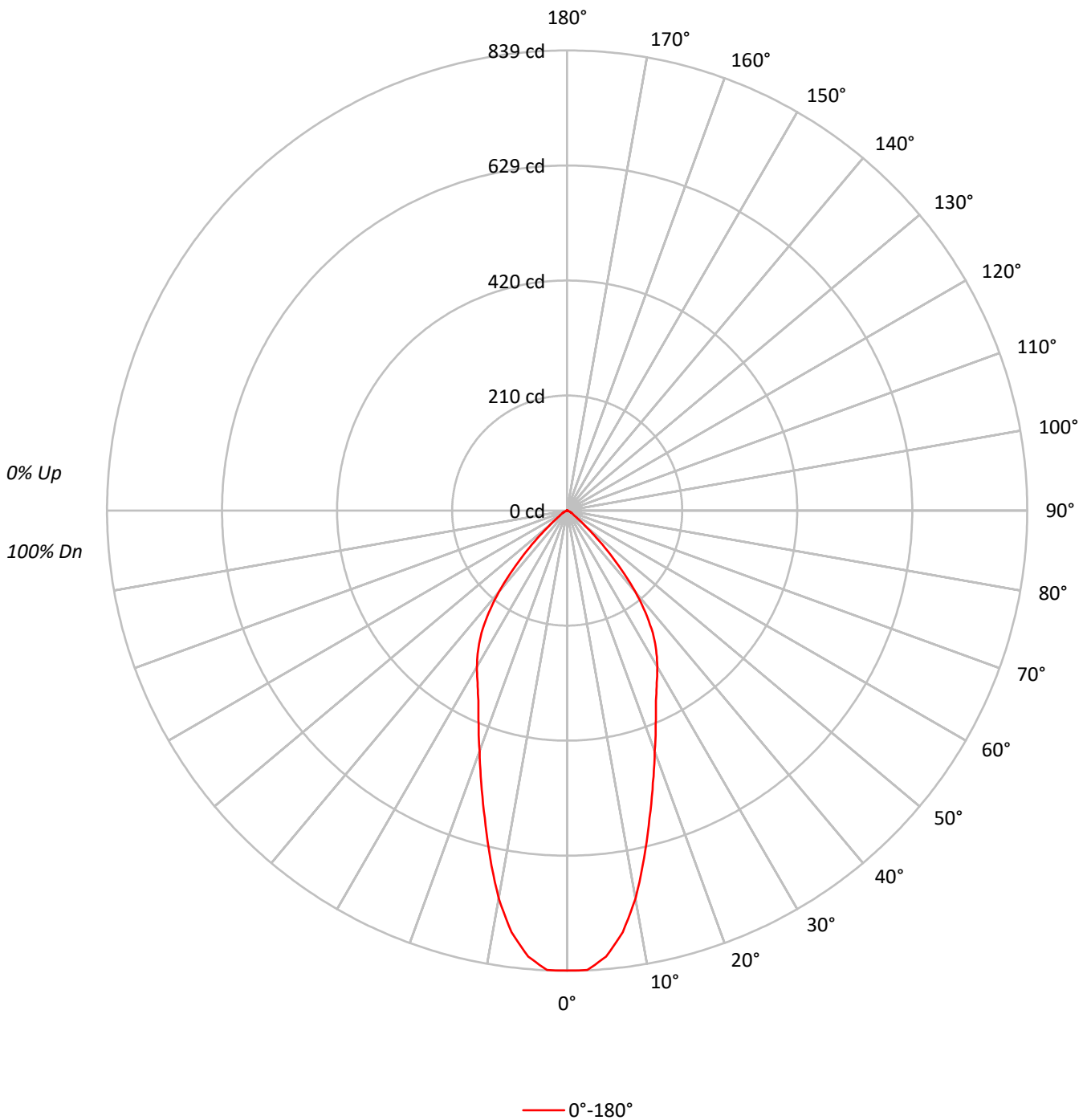
Input Watts (W): 13
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	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°	135102
5°	131995
10°	117441
15°	96753
20°	80047
25°	67993
30°	61203
35°	53573
40°	40673
45°	23604
50°	10702
55°	4803
60°	3093
65°	2440
70°	989
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	10.8
10°-20°	162.3	23.5
20°-30°	178.2	25.8
30°-40°	166.5	24.1
40°-50°	82.6	12.0
50°-60°	18.3	2.7
60°-70°	6.4	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°	415.2	60.2
0°-40°	581.7	84.3
0°-60°	682.7	98.9
0°-90°	690.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	690.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	839	
5°	816	75
15°	580	162
25°	382	178
35°	272	167
45°	104	83
55°	17	18
65°	6	6
75°	0	1
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	838.6
2.5°	838.6
5°	816.2
7.5°	775.6
10°	717.9
12.5°	648.5
15°	580.1
17.5°	520.3
20°	466.9
22.5°	422.0
25°	382.5
27.5°	353.6
30°	329.0
32.5°	302.3
35°	272.4
37.5°	235.0
40°	193.4
42.5°	147.4
45°	103.6
47.5°	66.2
50°	42.7
52.5°	25.6
55°	17.1
57.5°	13.9
60°	9.6
62.5°	8.5
65°	6.4
67.5°	5.3
70°	2.1
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)