

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: P123714

Luminaire Tested: **EL406930-TL403WBS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13987)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406930-TL403WBS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
WHITE 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: 760.1 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.82
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

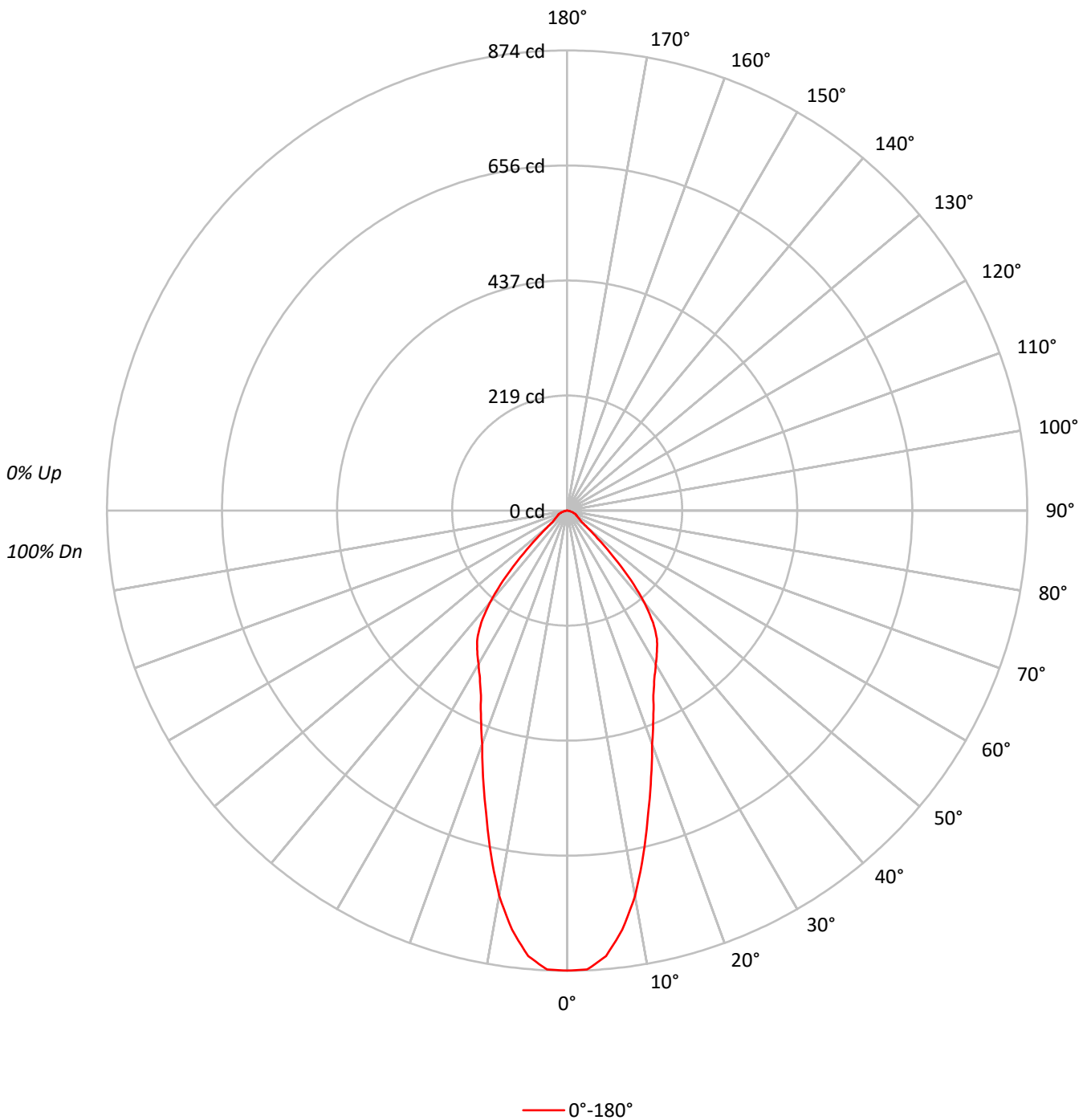
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P123714

CATALOG NUMBER: EL406930-TL403WBS

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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	89	79	73	68	87	78	72	67	76	71	67	75	70	66	73	69	66	64
6	84	74	67	62	82	73	66	62	71	66	61	70	65	61	68	64	61	59
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55
8	75	64	58	53	73	64	57	53	62	57	53	61	56	52	60	56	52	51
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	54	49	46	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	140740
5°	137348
10°	121514
15°	99071
20°	80853
25°	68828
30°	62617
35°	58510
40°	47929
45°	28616
50°	12431
55°	8005
60°	7153
65°	6824
70°	5982
75°	3921
80°	3897
85°	2033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	10.2
10°-20°	166.2	21.9
20°-30°	180.7	23.8
30°-40°	181.7	23.9
40°-50°	99.0	13.0
50°-60°	27.5	3.6
60°-70°	17.9	2.4
70°-80°	8.3	1.1
80°-90°	1.2	0.2
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°	424.4	55.8
0°-40°	606.1	79.7
0°-60°	732.7	96.4
0°-90°	760.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	874	
5°	849	78
15°	594	166
25°	387	181
35°	298	182
45°	126	99
55°	28	27
65°	18	18
75°	6	8
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	873.6
2.5°	872.5
5°	849.3
7.5°	802.9
10°	742.8
12.5°	668.9
15°	594.0
17.5°	530.7
20°	471.6
22.5°	427.3
25°	387.2
27.5°	358.7
30°	336.6
32.5°	317.6
35°	297.5
37.5°	268.0
40°	227.9
42.5°	179.4
45°	125.6
47.5°	78.1
50°	49.6
52.5°	33.8
55°	28.5
57.5°	25.3
60°	22.2
62.5°	20.0
65°	17.9
67.5°	16.9
70°	12.7
72.5°	11.6
75°	6.3
77.5°	5.3
80°	4.2
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0

(END OF REPORT)