

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: P123715

Luminaire Tested: **EL406935-TL403WBS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123715
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: EL406935-TL403WBS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
WHITE 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: 780.0 lumens
Efficiency: N/A
Efficacy: 60.0 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

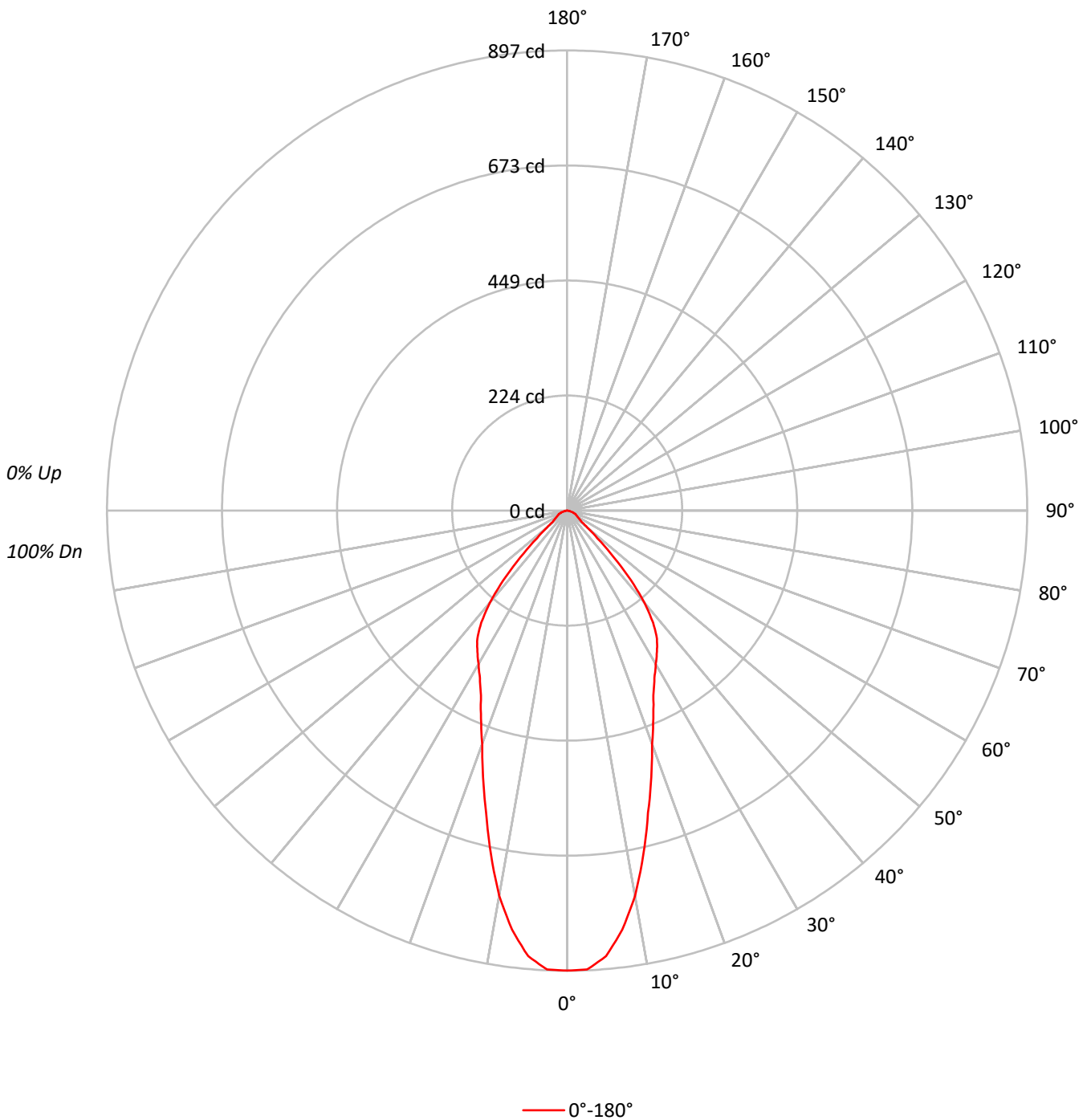
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	144446
5°	140971
10°	124704
15°	101673
20°	82978
25°	70641
30°	64254
35°	60063
40°	49191
45°	29368
50°	12757
55°	8202
60°	7314
65°	7014
70°	6123
75°	4046
80°	3989
85°	2033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	10.2
10°-20°	170.6	21.9
20°-30°	185.4	23.8
30°-40°	186.5	23.9
40°-50°	101.6	13.0
50°-60°	28.2	3.6
60°-70°	18.3	2.4
70°-80°	8.5	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°	435.6	55.8
0°-40°	622.1	79.8
0°-60°	751.9	96.4
0°-90°	780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	780.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	897	
5°	872	80
15°	610	171
25°	397	185
35°	305	187
45°	129	102
55°	29	28
65°	18	18
75°	6	9
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	896.6
2.5°	895.5
5°	871.7
7.5°	824.0
10°	762.3
12.5°	686.5
15°	609.6
17.5°	544.7
20°	484.0
22.5°	438.5
25°	397.4
27.5°	368.2
30°	345.4
32.5°	325.9
35°	305.4
37.5°	275.0
40°	233.9
42.5°	184.1
45°	128.9
47.5°	80.1
50°	50.9
52.5°	34.6
55°	29.2
57.5°	26.0
60°	22.7
62.5°	20.6
65°	18.4
67.5°	17.3
70°	13.0
72.5°	11.9
75°	6.5
77.5°	5.4
80°	4.3
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0

(END OF REPORT)