

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: P123684

Luminaire Tested: **EL406940-TL410WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13979)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406940-TL410WH
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
WHITE REFLECTOR, DIFFUSE DROP LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 4000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 770.1 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

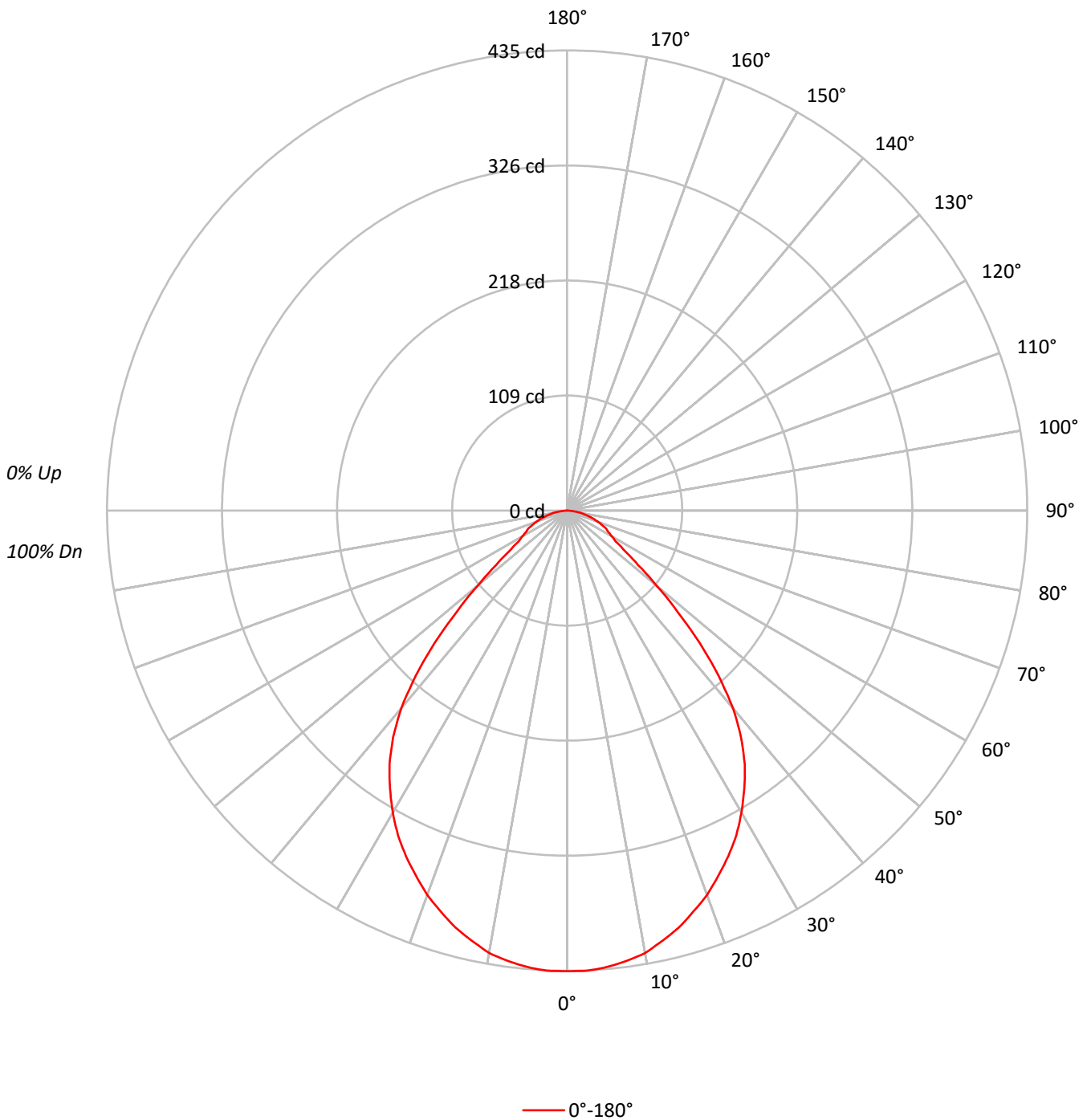
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89
2	103	97	91	86	101	95	90	85	91	87	84	88	85	82	85	82	80	78
3	96	87	80	75	94	86	79	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	77	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	49
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	95475
5°	95333
10°	94565
15°	92645
20°	90238
25°	87223
30°	83456
35°	78354
40°	69817
45°	54982
50°	37730
55°	25461
60°	21402
65°	21014
70°	19811
75°	18131
80°	16543
85°	12077



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	5.3
10°-20°	114.8	14.9
20°-30°	165.7	21.5
30°-40°	181.3	23.5
40°-50°	135.6	17.6
50°-60°	63.5	8.2
60°-70°	39.6	5.1
70°-80°	22.8	3.0
80°-90°	5.7	0.7
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°	321.6	41.8
0°-40°	502.9	65.3
0°-60°	702.0	91.2
0°-90°	770.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	435	
5°	433	41
15°	408	115
25°	360	166
35°	293	181
45°	177	136
55°	67	64
65°	40	40
75°	21	23
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	435.4
2.5°	435.4
5°	433.1
7.5°	429.5
10°	424.7
12.5°	416.4
15°	408.1
17.5°	397.4
20°	386.7
22.5°	373.6
25°	360.5
27.5°	346.2
30°	329.6
32.5°	311.7
35°	292.7
37.5°	270.1
40°	243.9
42.5°	211.8
45°	177.3
47.5°	141.6
50°	110.6
52.5°	84.5
55°	66.6
57.5°	54.7
60°	48.8
62.5°	44.0
65°	40.5
67.5°	35.7
70°	30.9
72.5°	26.2
75°	21.4
77.5°	16.7
80°	13.1
82.5°	8.3
85°	4.8
87.5°	1.2
90°	0.0

(END OF REPORT)