

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: P123682

Luminaire Tested: **EL406930-TL410WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123682
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: EL406930-TL410WH
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
WHITE REFLECTOR, DIFFUSE DROP LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 3000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

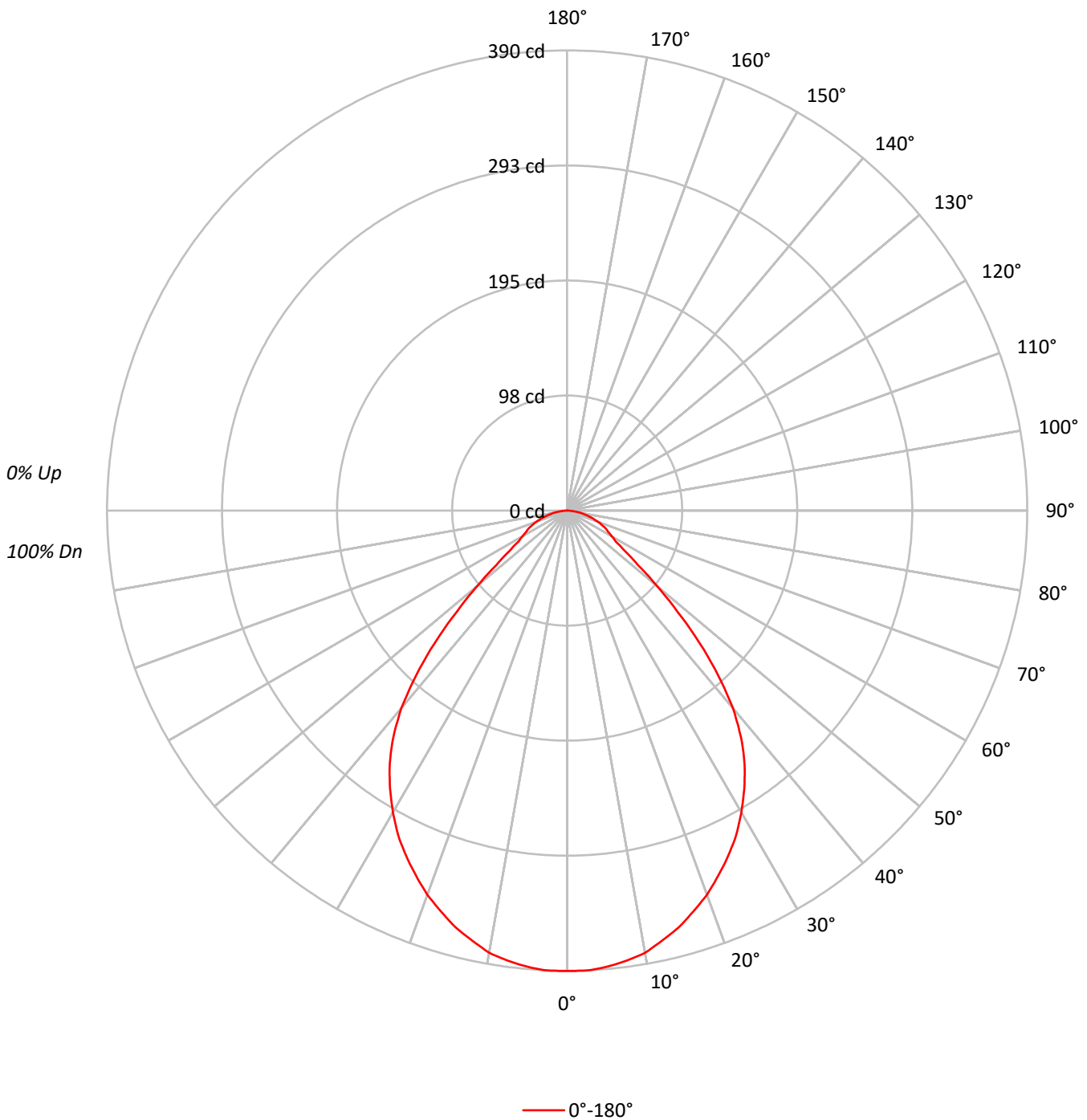
Lumens per Lamp: N/A
Luminaire Lumens: 690.0 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	85563
5°	85428
10°	84746
15°	83020
20°	80857
25°	78150
30°	74771
35°	70216
40°	62574
45°	49245
50°	33807
55°	22824
60°	19165
65°	18783
70°	17759
75°	16267
80°	14775
85°	10819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	5.3
10°-20°	102.9	14.9
20°-30°	148.5	21.5
30°-40°	162.5	23.5
40°-50°	121.5	17.6
50°-60°	56.9	8.2
60°-70°	35.5	5.1
70°-80°	20.4	3.0
80°-90°	5.1	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°	288.1	41.8
0°-40°	450.6	65.3
0°-60°	629.1	91.2
0°-90°	690.0	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°	390	
5°	388	37
15°	366	103
25°	323	148
35°	262	162
45°	159	122
55°	60	57
65°	36	35
75°	19	20
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	390.2
2.5°	390.2
5°	388.1
7.5°	384.9
10°	380.6
12.5°	373.1
15°	365.7
17.5°	356.1
20°	346.5
22.5°	334.8
25°	323.0
27.5°	310.2
30°	295.3
32.5°	279.3
35°	262.3
37.5°	242.0
40°	218.6
42.5°	189.8
45°	158.8
47.5°	126.9
50°	99.1
52.5°	75.7
55°	59.7
57.5°	49.0
60°	43.7
62.5°	39.4
65°	36.2
67.5°	32.0
70°	27.7
72.5°	23.5
75°	19.2
77.5°	14.9
80°	11.7
82.5°	7.5
85°	4.3
87.5°	1.1
90°	0.0

(END OF REPORT)