

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: P123717

Luminaire Tested: **EL406927-TL402WHS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13988)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406927-TL402WHS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
WHITE REFLECTOR, SOLITE® LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 2700K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 710.0 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.82
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

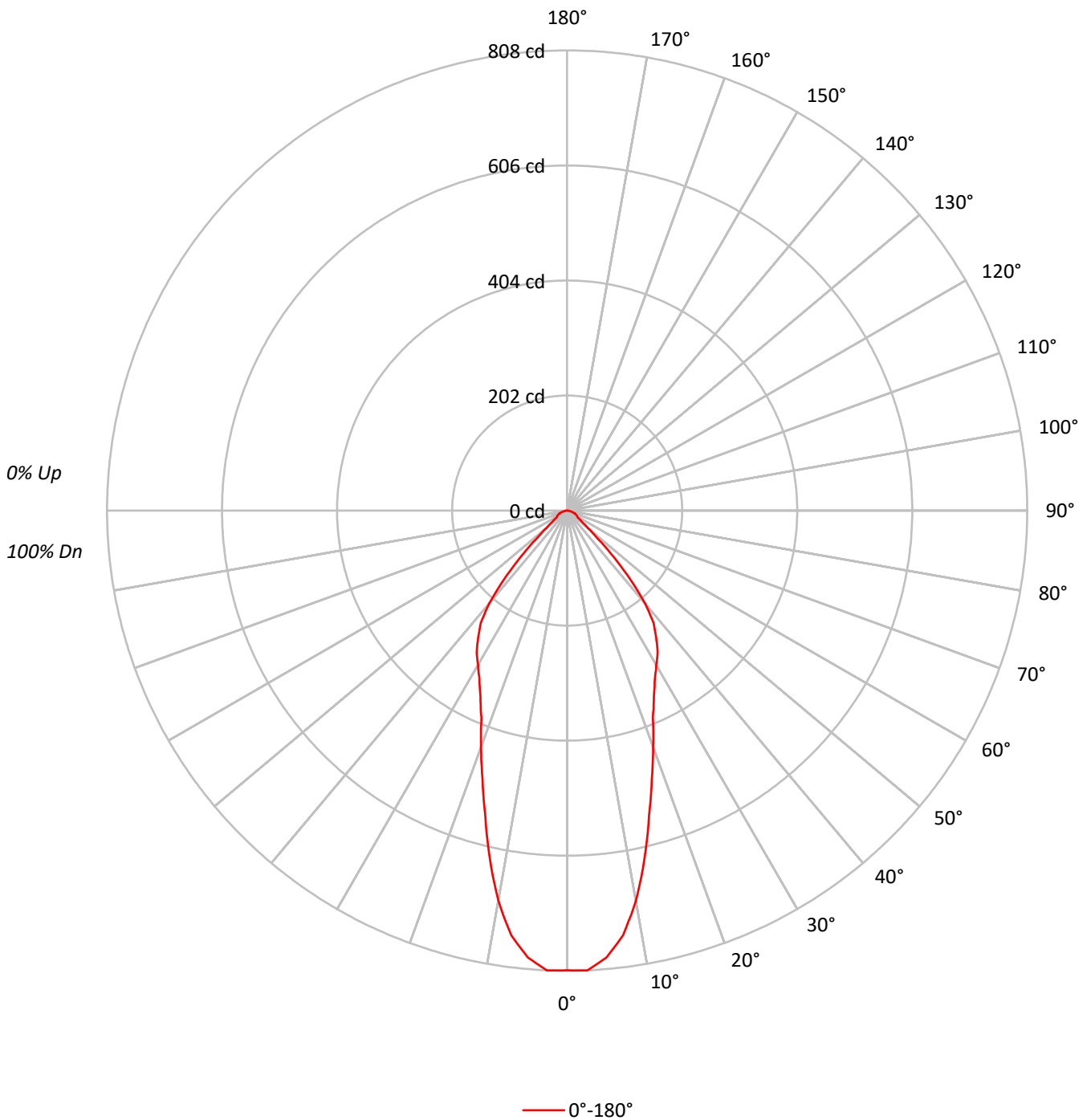
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	104	110	107	105	102	103	101	99		99	98	96		96	95	93	91
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73		80	75	72		78	74	71	69
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73	69	65	64
6	83	73	67	62	82	73	66	62	71	65	61		70	65	61		68	64	60	59
7	79	68	62	57	77	68	61	57	66	61	57		65	60	56		64	59	56	54
8	75	64	57	53	73	63	57	53	62	57	53		61	56	52		60	56	52	51
9	71	60	54	49	69	60	53	49	59	53	49		58	52	49		57	52	49	47
10	67	57	50	46	66	56	50	46	55	50	46		54	49	46		54	49	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	130043
5°	127419
10°	113825
15°	92617
20°	75761
25°	64082
30°	58226
35°	53554
40°	44837
45°	26497
50°	11905
55°	7612
60°	6573
65°	6633
70°	6830
75°	4855
80°	3618
85°	3512



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	10.2
10°-20°	155.4	21.9
20°-30°	167.8	23.6
30°-40°	168.4	23.7
40°-50°	92.3	13.0
50°-60°	25.8	3.6
60°-70°	16.8	2.4
70°-80°	9.1	1.3
80°-90°	2.1	0.3
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°	395.5	55.7
0°-40°	563.9	79.4
0°-60°	682.0	96.1
0°-90°	710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	807	
5°	788	72
15°	555	155
25°	360	168
35°	272	168
45°	116	92
55°	27	26
65°	17	17
75°	8	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	807.2
2.5°	808.2
5°	787.9
7.5°	752.0
10°	695.8
12.5°	627.0
15°	555.3
17.5°	494.2
20°	441.9
22.5°	393.4
25°	360.5
27.5°	333.4
30°	313.0
32.5°	295.6
35°	272.3
37.5°	249.1
40°	213.2
42.5°	164.7
45°	116.3
47.5°	74.6
50°	47.5
52.5°	33.9
55°	27.1
57.5°	21.3
60°	20.4
62.5°	19.4
65°	17.4
67.5°	13.6
70°	14.5
72.5°	11.6
75°	7.8
77.5°	5.8
80°	3.9
82.5°	2.9
85°	1.9
87.5°	1.0
90°	0.0

(END OF REPORT)