

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: P123706

Luminaire Tested: **EL406930-TL402SNS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13985)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406930-TL402SNS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
SATIN NICKEL REFLECTOR, SOLITE® LENS AND SATIN NICKEL TRIM RING
Light Source: (1)SURFACE MOUNT LED, 3000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 720.0 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.78
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

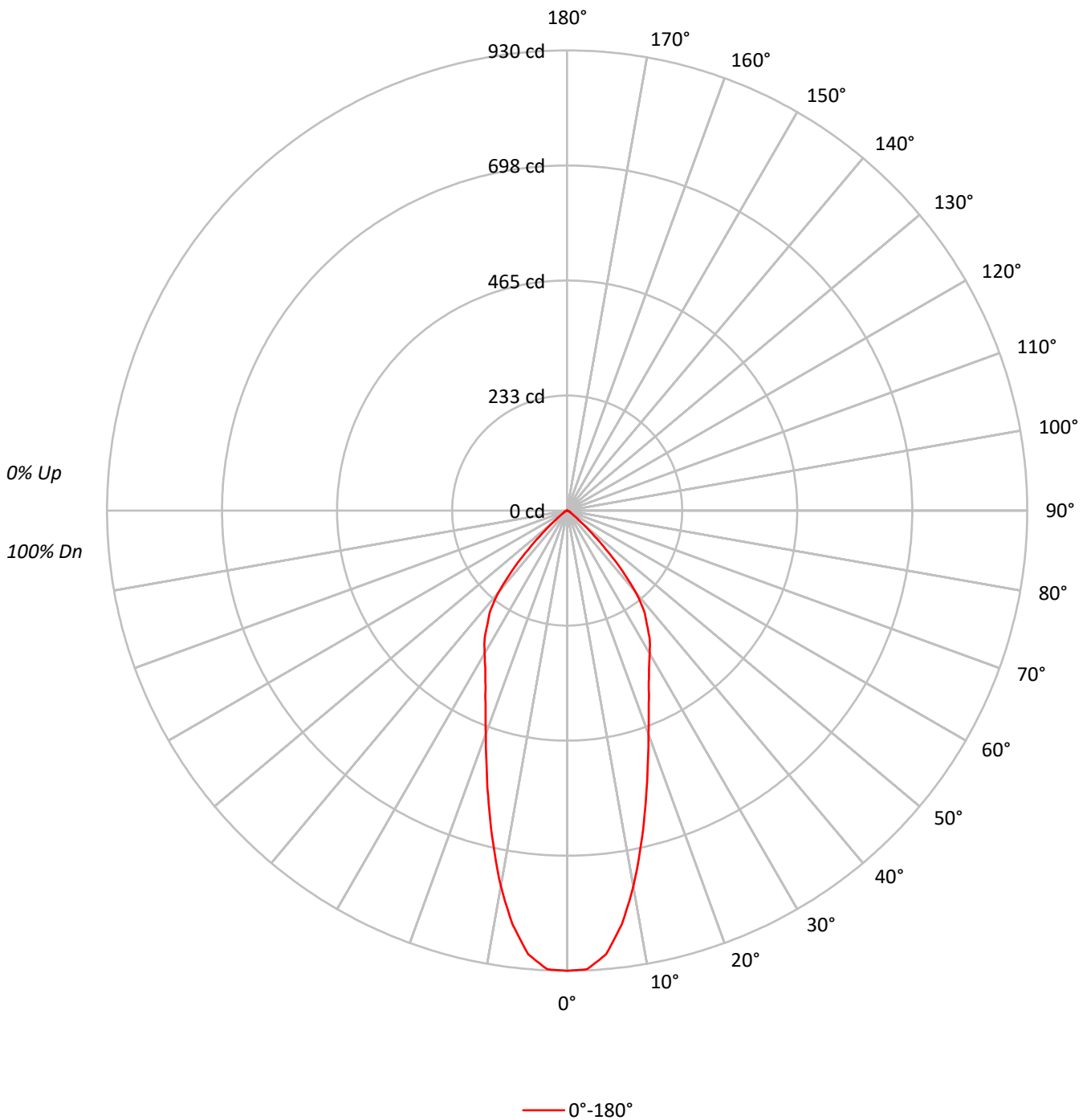
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	72
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	86	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	76	66	60	56	65	60	56		64	59	55		63	59	55	54
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60	55	52	50
10	69	59	53	49	68	59	53	49	58	53	49		57	52	49		56	52	49	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	149843
5°	145580
10°	126176
15°	102174
20°	82378
25°	69308
30°	62040
35°	55324
40°	45489
45°	25244
50°	9349
55°	3595
60°	2417
65°	2020
70°	2496
75°	1992
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	11.3
10°-20°	170.8	23.7
20°-30°	181.5	25.2
30°-40°	175.0	24.3
40°-50°	89.0	12.4
50°-60°	14.8	2.1
60°-70°	5.8	0.8
70°-80°	1.5	0.2
80°-90°	0.0	0.0
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°	433.9	60.3
0°-40°	608.9	84.6
0°-60°	712.7	99.0
0°-90°	720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	720.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	930	
5°	900	82
15°	613	171
25°	390	181
35°	281	175
45°	111	89
55°	13	15
65°	5	6
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	930.1
2.5°	927.9
5°	900.2
7.5°	843.8
10°	771.3
12.5°	690.4
15°	612.6
17.5°	541.2
20°	480.5
22.5°	430.4
25°	389.9
27.5°	358.0
30°	333.5
32.5°	311.1
35°	281.3
37.5°	255.7
40°	216.3
42.5°	165.1
45°	110.8
47.5°	67.1
50°	37.3
52.5°	22.4
55°	12.8
57.5°	9.6
60°	7.5
62.5°	6.4
65°	5.3
67.5°	5.3
70°	5.3
72.5°	0.0
75°	3.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)