

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: P123699

Luminaire Tested: **EL406935-TL402SBKS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13983)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406935-TL402SBKS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
SPECULAR BLACK REFLECTOR, 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: 720.1 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.86
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

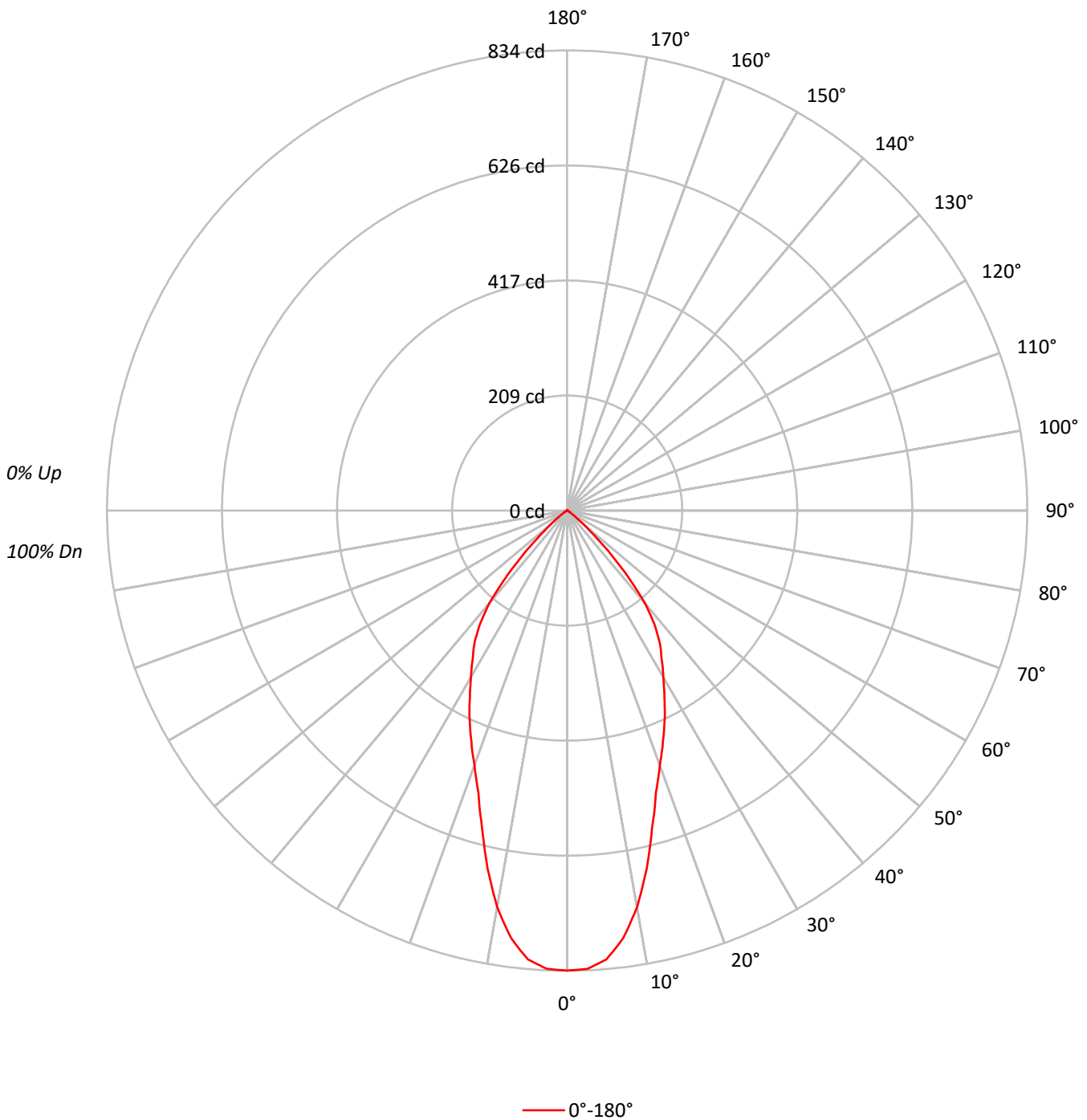
Input Watts (W): 13
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	75	71	89	81	75	70	79	74	70		77	73	69		75	72	68	67
6	85	76	70	65	84	75	69	65	74	68	64		72	67	64		71	67	63	62
7	81	71	65	60	79	70	64	60	69	64	60		68	63	59		67	62	59	57
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63	58	55	53
9	73	62	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	52	49	58	52	48		57	52	48		56	51	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	134312
5°	132044
10°	119355
15°	99322
20°	84247
25°	74374
30°	64867
35°	57605
40°	46036
45°	25426
50°	9148
55°	3314
60°	1740
65°	1639
70°	518
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	10.4
10°-20°	167.0	23.2
20°-30°	191.8	26.6
30°-40°	179.9	25.0
40°-50°	89.0	12.4
50°-60°	12.9	1.8
60°-70°	3.7	0.5
70°-80°	0.4	0.1
80°-90°	0.6	0.1
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°	613.7	85.2
0°-60°	715.6	99.4
0°-90°	720.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	720.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	834	
5°	816	75
15°	596	167
25°	418	192
35°	293	180
45°	112	89
55°	12	13
65°	4	4
75°	0	0
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	833.7
2.5°	831.5
5°	816.5
7.5°	781.1
10°	729.6
12.5°	665.2
15°	595.5
17.5°	535.4
20°	491.4
22.5°	453.8
25°	418.4
27.5°	382.0
30°	348.7
32.5°	318.7
35°	292.9
37.5°	259.6
40°	218.9
42.5°	164.2
45°	111.6
47.5°	66.5
50°	36.5
52.5°	20.4
55°	11.8
57.5°	5.4
60°	5.4
62.5°	5.4
65°	4.3
67.5°	2.1
70°	1.1
72.5°	1.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	1.1
90°	0.0

(END OF REPORT)