

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: P123697

Luminaire Tested: **EL406927-TL402SBKS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123697
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: EL406927-TL402SBKS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
SPECULAR BLACK 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: 650.0 lumens
Efficiency: N/A
Efficacy: 50.0 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

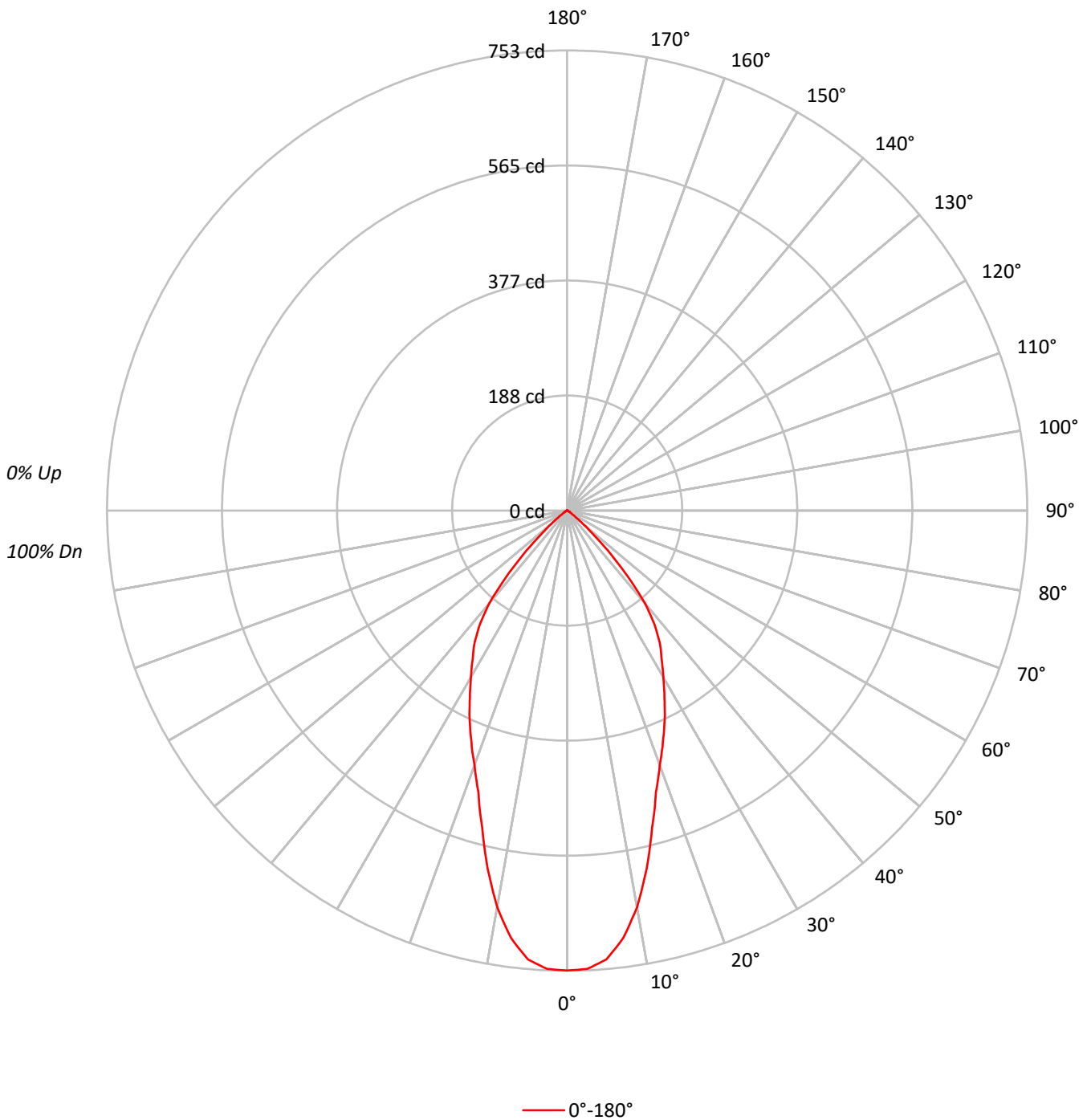
Input Watts (W): 13
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	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°	121247
5°	119203
10°	107756
15°	89665
20°	76052
25°	67157
30°	58561
35°	52000
40°	41556
45°	22943
50°	8246
55°	3005
60°	1547
65°	1487
70°	471
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	10.4
10°-20°	150.7	23.2
20°-30°	173.2	26.6
30°-40°	162.4	25.0
40°-50°	80.3	12.4
50°-60°	11.6	1.8
60°-70°	3.3	0.5
70°-80°	0.4	0.1
80°-90°	0.5	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°	391.7	60.3
0°-40°	554.1	85.2
0°-60°	646.0	99.4
0°-90°	650.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	650.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	753	
5°	737	68
15°	538	151
25°	378	173
35°	264	162
45°	101	80
55°	11	12
65°	4	3
75°	0	0
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	752.6
2.5°	750.7
5°	737.1
7.5°	705.1
10°	658.7
12.5°	600.5
15°	537.6
17.5°	483.3
20°	443.6
22.5°	409.7
25°	377.8
27.5°	344.8
30°	314.8
32.5°	287.7
35°	264.4
37.5°	234.4
40°	197.6
42.5°	148.2
45°	100.7
47.5°	60.1
50°	32.9
52.5°	18.4
55°	10.7
57.5°	4.8
60°	4.8
62.5°	4.8
65°	3.9
67.5°	1.9
70°	1.0
72.5°	1.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	1.0
90°	0.0

(END OF REPORT)