

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: P123724

Luminaire Tested: **EL406940-TL403BBS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13989)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406940-TL403BBS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
BLACK BAFFLE, SOLITE® LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 4000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

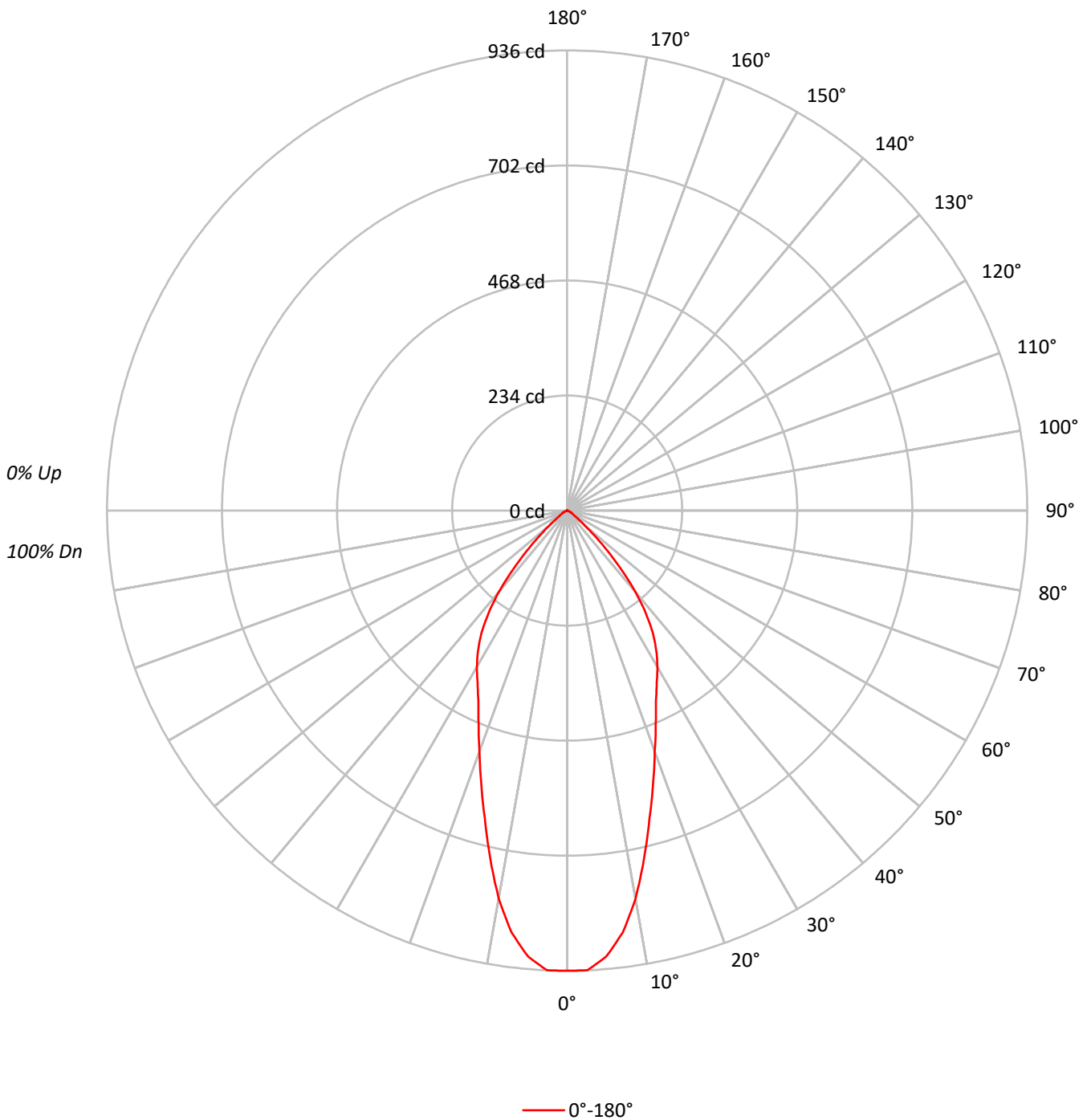
Lumens per Lamp: N/A
Luminaire Lumens: 770.0 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.83
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

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	81		85	83	80	78
4	95	87	81	77	94	86	81	76	84	79	76		82	78	75		80	77	74	72
5	90	81	75	70	89	80	74	70	78	73	69		77	72	69		75	71	68	67
6	85	76	69	65	84	75	69	65	73	68	64		72	67	64		71	66	63	62
7	81	71	64	60	79	70	64	60	69	63	59		68	63	59		66	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	71	62	56	52	61	55	52		60	55	51		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°	150777
5°	147294
10°	131051
15°	107978
20°	89322
25°	75867
30°	68309
35°	59788
40°	45384
45°	26338
50°	11955
55°	5365
60°	3448
65°	2745
70°	1130
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	10.8
10°-20°	181.1	23.5
20°-30°	198.9	25.8
30°-40°	185.9	24.1
40°-50°	92.2	12.0
50°-60°	20.4	2.7
60°-70°	7.2	0.9
70°-80°	0.6	0.1
80°-90°	0.7	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°	463.3	60.2
0°-40°	649.2	84.3
0°-60°	761.9	98.9
0°-90°	770.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	936	
5°	911	83
15°	647	181
25°	427	199
35°	304	186
45°	116	92
55°	19	20
65°	7	7
75°	0	1
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	935.9
2.5°	935.9
5°	910.8
7.5°	865.5
10°	801.1
12.5°	723.7
15°	647.4
17.5°	580.6
20°	521.0
22.5°	470.9
25°	426.8
27.5°	394.6
30°	367.2
32.5°	337.4
35°	304.0
37.5°	262.3
40°	215.8
42.5°	164.5
45°	115.6
47.5°	73.9
50°	47.7
52.5°	28.6
55°	19.1
57.5°	15.5
60°	10.7
62.5°	9.5
65°	7.2
67.5°	6.0
70°	2.4
72.5°	1.2
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	1.2
90°	0.0

(END OF REPORT)