

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: P123716

Luminaire Tested: **EL406940-TL403WBS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13987)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406940-TL403WBS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
WHITE 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: 850.1 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.82
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

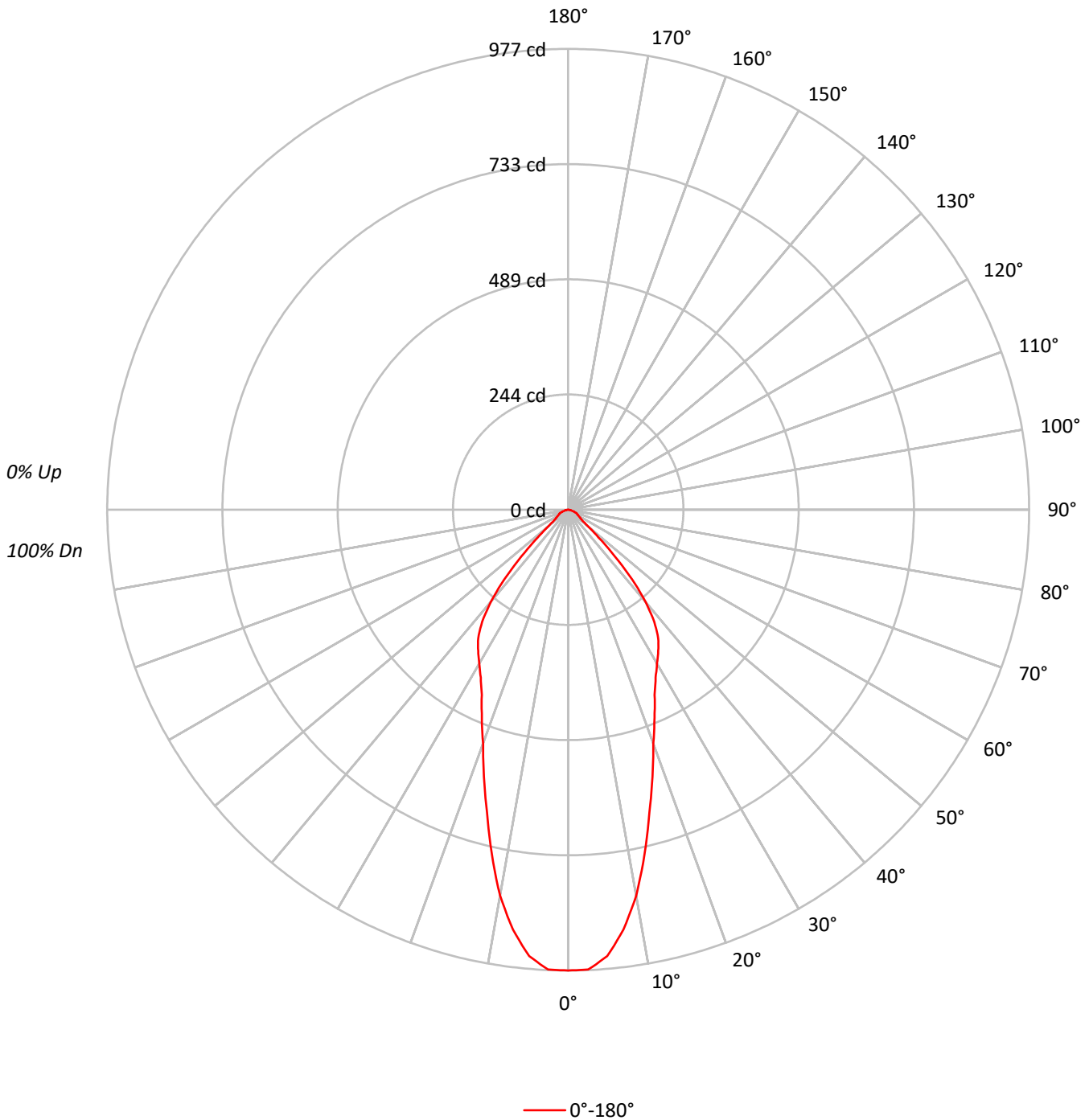
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	110	107	105	102	103	101	99		99	98	96		96	95	94	92
2	106	100	96	92	104	99	95	91	95	92	89		92	90	87		90	87	85	83
3	100	93	87	82	98	91	86	82	88	84	80		86	82	79		84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73		80	76	72		78	74	71	70
5	89	79	73	68	87	78	72	67	76	71	67		75	70	66		73	69	66	64
6	84	74	67	62	82	73	66	62	71	66	61		70	65	61		68	64	61	59
7	79	69	62	57	77	68	62	57	67	61	57		65	60	56		64	60	56	55
8	75	64	58	53	73	64	57	53	62	57	53		61	56	52		60	56	52	51
9	71	60	54	49	70	60	53	49	59	53	49		58	53	49		57	52	49	47
10	67	57	50	46	66	56	50	46	55	50	46		54	49	46		54	49	46	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	157398
5°	153617
10°	135893
15°	110797
20°	90436
25°	76987
30°	70020
35°	65452
40°	53607
45°	31988
50°	13910
55°	8960
60°	7991
65°	7662
70°	6689
75°	4419
80°	4360
85°	2218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	10.2
10°-20°	185.9	21.9
20°-30°	202.1	23.8
30°-40°	203.3	23.9
40°-50°	110.7	13.0
50°-60°	30.8	3.6
60°-70°	20.0	2.4
70°-80°	9.3	1.1
80°-90°	1.3	0.2
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°	474.7	55.8
0°-40°	677.9	79.7
0°-60°	819.4	96.4
0°-90°	850.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	850.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	977	
5°	950	87
15°	664	186
25°	433	202
35°	333	203
45°	140	111
55°	32	31
65°	20	20
75°	7	9
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	977.0
2.5°	975.8
5°	949.9
7.5°	898.0
10°	830.7
12.5°	748.1
15°	664.3
17.5°	593.5
20°	527.5
22.5°	477.9
25°	433.1
27.5°	401.2
30°	376.4
32.5°	355.2
35°	332.8
37.5°	299.7
40°	254.9
42.5°	200.6
45°	140.4
47.5°	87.3
50°	55.5
52.5°	37.8
55°	31.9
57.5°	28.3
60°	24.8
62.5°	22.4
65°	20.1
67.5°	18.9
70°	14.2
72.5°	13.0
75°	7.1
77.5°	5.9
80°	4.7
82.5°	1.2
85°	1.2
87.5°	0.0
90°	0.0

(END OF REPORT)