

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: P123664

Luminaire Tested: **EL406940-TL410H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13974)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406940-TL410H
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
HAZE SEMI-SPECULAR REFLECTOR, DIFFUSE DROP LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 4000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

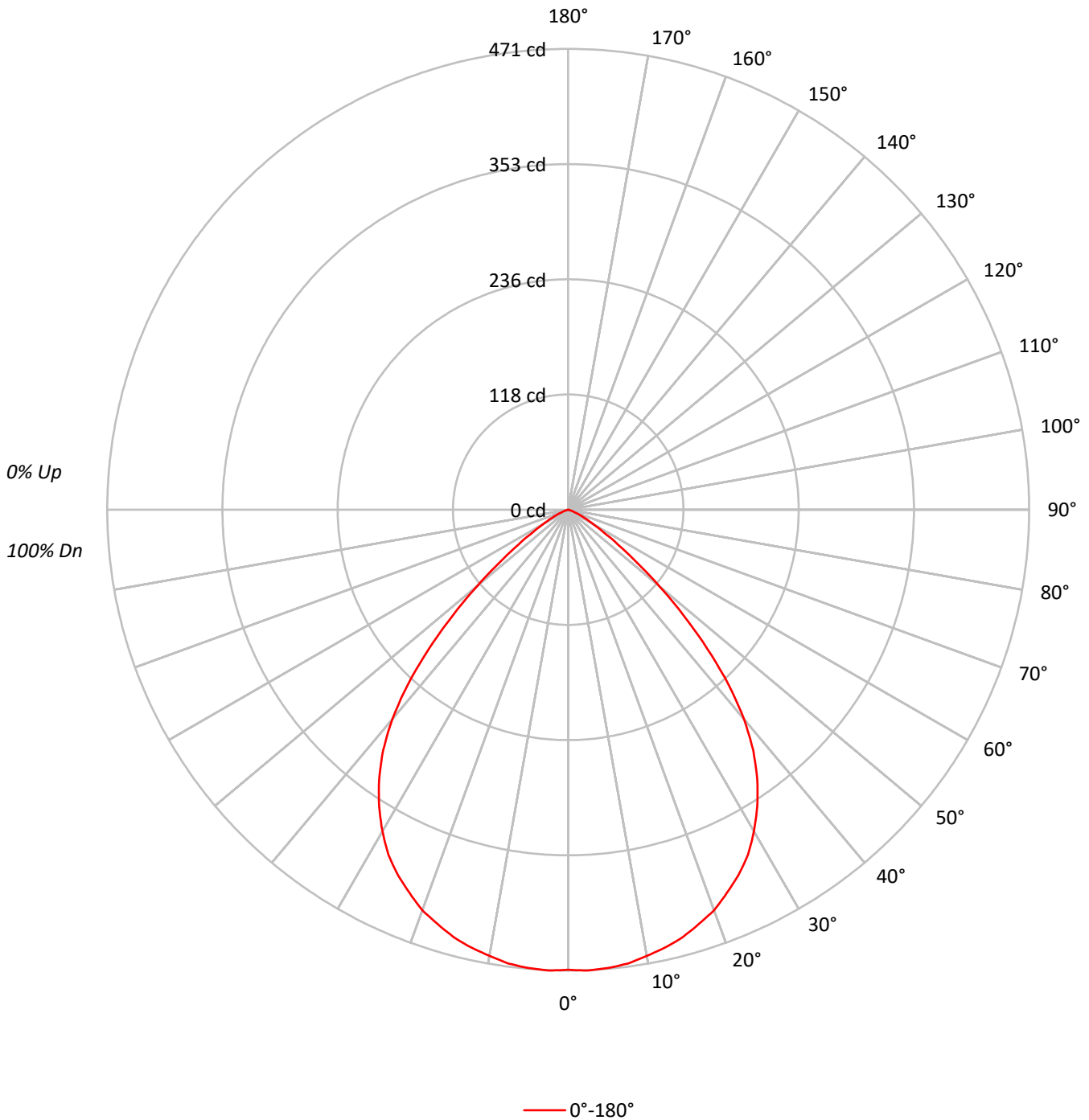
Lumens per Lamp: N/A
Luminaire Lumens: 800.0 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77		83	79	76		81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75	71	67	66
5	86	75	68	63	84	74	68	63	72	66	62		71	65	61		69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56		65	60	55		64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51		60	55	50		59	54	50	48
8	70	59	51	47	69	58	51	46	57	51	46		56	50	46		55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	75751
5°	76040
10°	75742
15°	75438
20°	74698
25°	73219
30°	70634
35°	66259
40°	58823
45°	45840
50°	30427
55°	17386
60°	9602
65°	5451
70°	2261
75°	747
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	5.6
10°-20°	127.4	15.9
20°-30°	189.2	23.6
30°-40°	208.7	26.1
40°-50°	154.0	19.2
50°-60°	59.4	7.4
60°-70°	14.8	1.8
70°-80°	1.9	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°	361.3	45.2
0°-40°	570.0	71.2
0°-60°	783.4	97.9
0°-90°	800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	800.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	470	
5°	470	45
15°	452	127
25°	412	189
35°	337	209
45°	201	154
55°	62	59
65°	14	15
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	470.2
2.5°	471.4
5°	470.2
7.5°	467.8
10°	463.0
12.5°	458.3
15°	452.3
17.5°	444.0
20°	435.7
22.5°	423.8
25°	411.9
27.5°	397.6
30°	379.7
32.5°	359.5
35°	336.9
37.5°	310.7
40°	279.7
42.5°	242.8
45°	201.2
47.5°	159.5
50°	121.4
52.5°	88.1
55°	61.9
57.5°	42.9
60°	29.8
62.5°	20.2
65°	14.3
67.5°	8.3
70°	4.8
72.5°	2.4
75°	1.2
77.5°	1.2
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)