

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: P123692

Luminaire Tested: **EL406940-TL411WB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13981)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406940-TL411WB
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
WHITE BAFFLE, DIFFUSE DROP LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 4000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

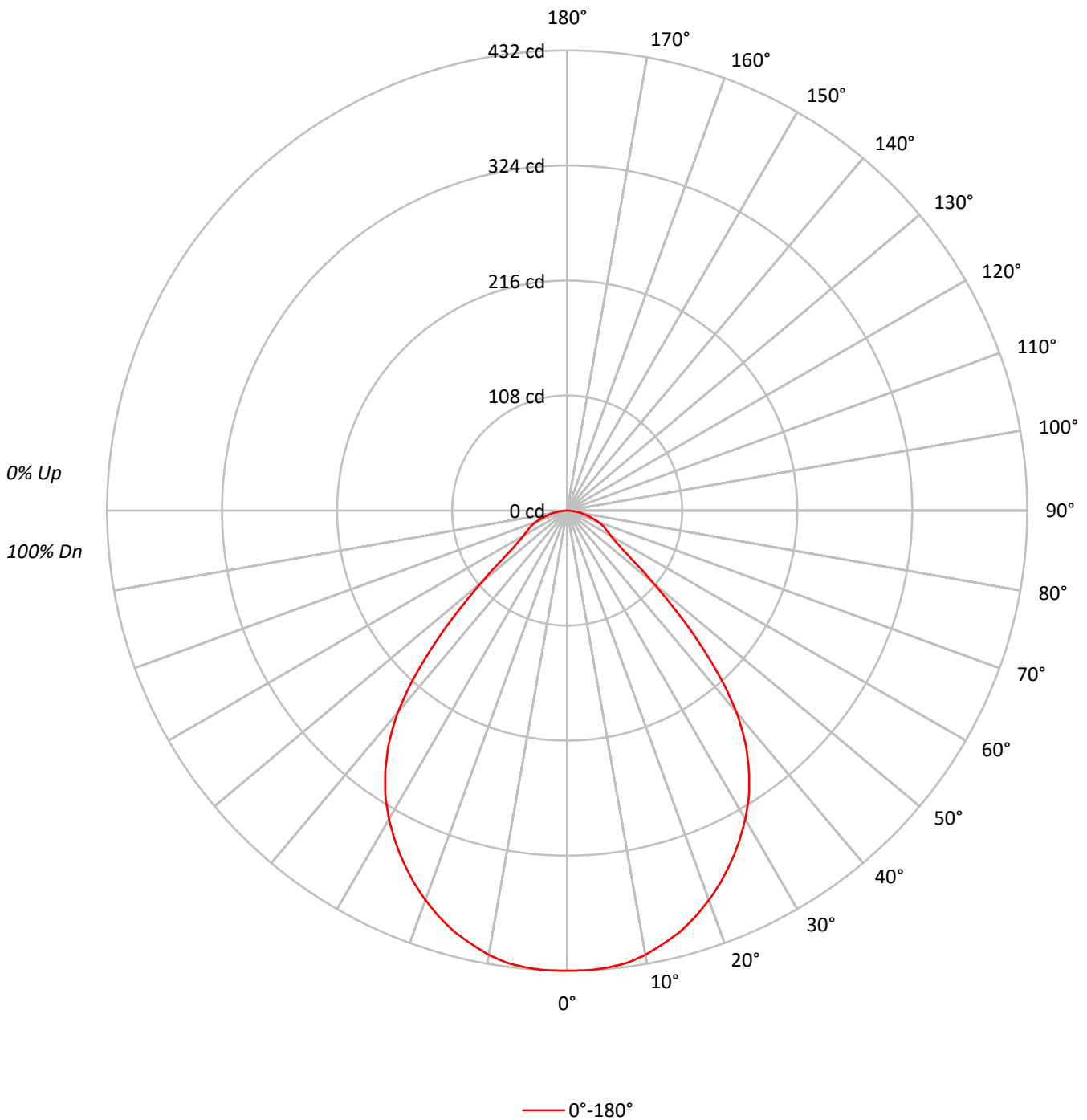
Lumens per Lamp: N/A
Luminaire Lumens: 770.0 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.2
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84		88	85	82		85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	47		57	51	47		56	51	47	45
8	68	56	49	43	67	55	48	43	54	48	43		53	47	43		52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39		49	44	39		48	43	39	38
10	60	48	41	37	59	48	41	36	47	41	36		46	40	36		45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	94729
5°	94827
10°	94320
15°	92940
20°	90798
25°	88094
30°	84671
35°	79638
40°	70847
45°	54238
50°	35717
55°	24123
60°	20876
65°	20391
70°	19811
75°	18131
80°	16543
85°	12077



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	5.3
10°-20°	115.2	15.0
20°-30°	167.4	21.7
30°-40°	184.4	24.0
40°-50°	134.2	17.4
50°-60°	60.7	7.9
60°-70°	38.9	5.0
70°-80°	22.8	3.0
80°-90°	5.7	0.7
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°	323.5	42.0
0°-40°	507.9	66.0
0°-60°	702.7	91.3
0°-90°	770.0	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°	432	
5°	431	41
15°	409	115
25°	364	167
35°	298	184
45°	175	134
55°	63	61
65°	39	39
75°	21	23
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	432.0
2.5°	432.0
5°	430.8
7.5°	428.4
10°	423.6
12.5°	416.5
15°	409.4
17.5°	399.8
20°	389.1
22.5°	377.2
25°	364.1
27.5°	349.9
30°	334.4
32.5°	317.7
35°	297.5
37.5°	274.9
40°	247.5
42.5°	213.0
45°	174.9
47.5°	136.9
50°	104.7
52.5°	79.7
55°	63.1
57.5°	53.6
60°	47.6
62.5°	42.8
65°	39.3
67.5°	35.7
70°	30.9
72.5°	26.2
75°	21.4
77.5°	16.7
80°	13.1
82.5°	8.3
85°	4.8
87.5°	1.2
90°	0.0

(END OF REPORT)