

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: P123691

Luminaire Tested: **EL406935-TL411WB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123691
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: EL406935-TL411WB
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
WHITE BAFFLE, DIFFUSE DROP LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 3500K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

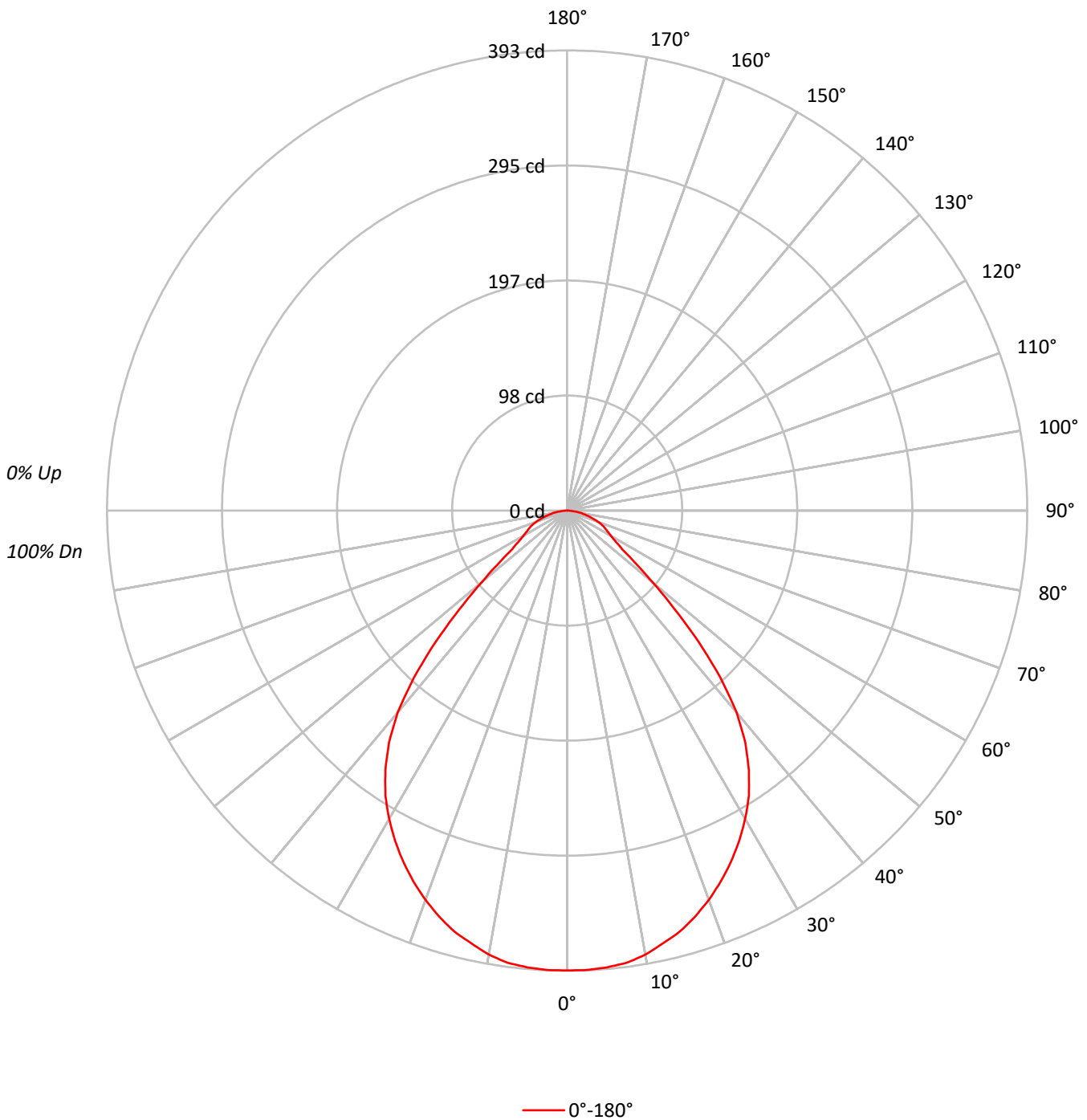
Lumens per Lamp: N/A
Luminaire Lumens: 700.0 lumens
Efficiency: N/A
Efficacy: 53.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.2
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 13
Input Voltage (V): NR
Input Current (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	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°	86112
5°	86198
10°	85748
15°	84495
20°	82561
25°	80085
30°	76974
35°	72411
40°	64406
45°	49307
50°	32477
55°	21906
60°	18990
65°	18523
70°	18016
75°	16521
80°	15027
85°	10819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.2	5.3
10°-20°	104.7	15.0
20°-30°	152.2	21.7
30°-40°	167.7	24.0
40°-50°	121.9	17.4
50°-60°	55.1	7.9
60°-70°	35.3	5.0
70°-80°	20.7	3.0
80°-90°	5.2	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°	294.1	42.0
0°-40°	461.7	66.0
0°-60°	638.8	91.3
0°-90°	700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	393	
5°	392	37
15°	372	105
25°	331	152
35°	270	168
45°	159	122
55°	57	55
65°	36	35
75°	20	21
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	392.7
2.5°	392.7
5°	391.6
7.5°	389.5
10°	385.1
12.5°	378.6
15°	372.2
17.5°	363.5
20°	353.8
22.5°	342.9
25°	331.0
27.5°	318.1
30°	304.0
32.5°	288.8
35°	270.5
37.5°	249.9
40°	225.0
42.5°	193.6
45°	159.0
47.5°	124.4
50°	95.2
52.5°	72.5
55°	57.3
57.5°	48.7
60°	43.3
62.5°	38.9
65°	35.7
67.5°	32.5
70°	28.1
72.5°	23.8
75°	19.5
77.5°	15.1
80°	11.9
82.5°	7.6
85°	4.3
87.5°	1.1
90°	0.0

(END OF REPORT)