

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: P123694

Luminaire Tested: **EL406930-TL402HS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13982)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406930-TL402HS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
HAZE REFLECTOR, SOLITE® LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 3000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

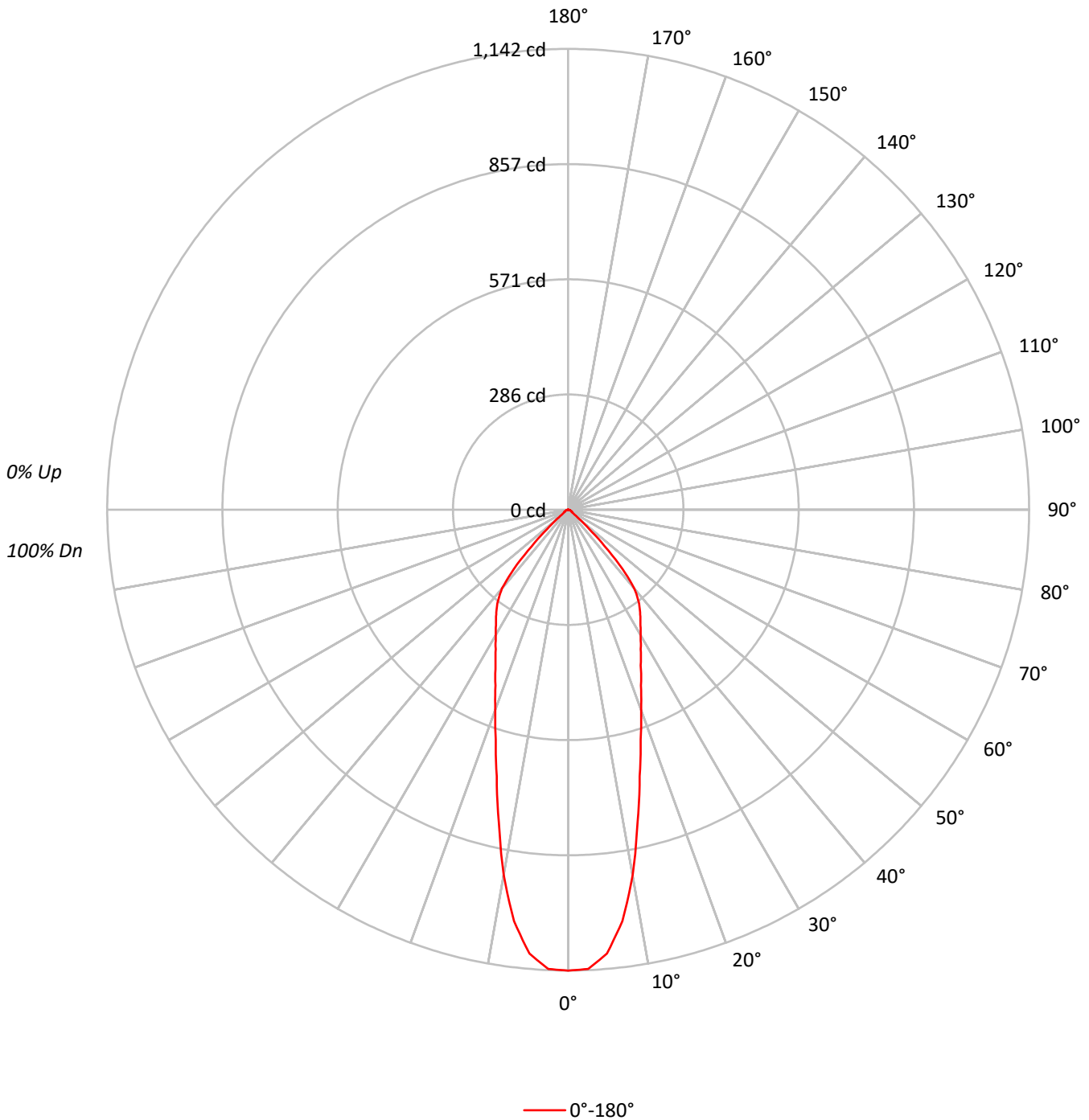
Lumens per Lamp: N/A
Luminaire Lumens: 810.0 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.71
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	85	82		86	83	80	79
4	96	88	82	77	94	87	81	77	84	80	76		82	78	75		80	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70		77	73	69		76	72	69	67
6	86	76	70	65	84	76	70	65	74	69	65		73	68	64		71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60		68	63	60		67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56		64	59	56		63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53		61	56	52		60	55	52	51
10	70	60	54	50	69	59	53	49	58	53	49		58	53	49		57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	250484
5°	242989
10°	204694
15°	155188
20°	123187
25°	102949
30°	90748
35°	83092
40°	72965
45°	39694
50°	11633
55°	4893
60°	4210
65°	4410
70°	2052
75°	932
80°	0
85°	2768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	12.3
10°-20°	192.6	23.8
20°-30°	197.8	24.4
30°-40°	193.0	23.8
40°-50°	102.5	12.7
50°-60°	13.8	1.7
60°-70°	8.2	1.0
70°-80°	2.1	0.3
80°-90°	0.6	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°	489.8	60.5
0°-40°	682.8	84.3
0°-60°	799.2	98.7
0°-90°	810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1142	
5°	1104	99
15°	684	193
25°	426	198
35°	310	193
45°	128	103
55°	13	14
65°	8	8
75°	1	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1142.3
2.5°	1139.1
5°	1103.9
7.5°	1028.1
10°	919.3
12.5°	793.5
15°	683.6
17.5°	597.3
20°	527.9
22.5°	471.4
25°	425.5
27.5°	389.3
30°	358.4
32.5°	332.8
35°	310.4
37.5°	286.9
40°	254.9
42.5°	199.4
45°	128.0
47.5°	70.4
50°	34.1
52.5°	17.1
55°	12.8
57.5°	10.7
60°	9.6
62.5°	10.7
65°	8.5
67.5°	7.5
70°	3.2
72.5°	5.3
75°	1.1
77.5°	0.0
80°	0.0
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0

(END OF REPORT)