

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: P123702

Luminaire Tested: **EL406930-TL402SCS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13984)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406930-TL402SCS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
SPECULAR CLEAR REFLECTOR, SOLITE® LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 3000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

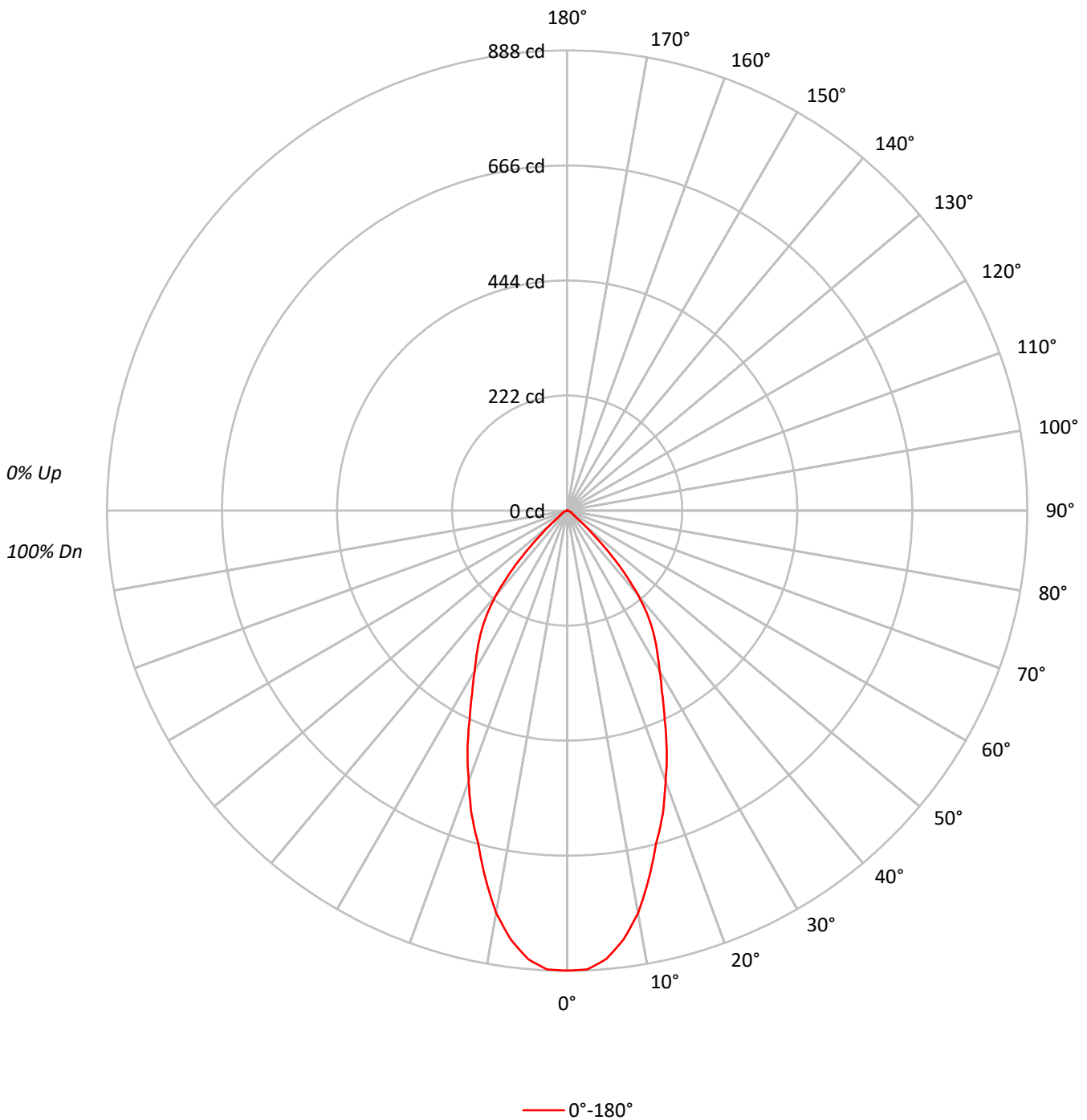
Lumens per Lamp: N/A
Luminaire Lumens: 770.0 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.84
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

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	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	84	81		85	83	80	78
4	96	87	82	77	94	86	81	77	84	79	76		82	78	75		80	77	74	72
5	90	81	75	71	89	80	75	70	79	73	70		77	72	69		75	71	68	67
6	85	76	70	65	84	75	69	65	74	68	64		72	67	64		71	67	63	62
7	81	71	65	60	79	70	64	60	69	64	60		68	63	59		67	62	59	57
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	59	53	49	58	52	49		57	52	48		56	52	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	142996
5°	140469
10°	128941
15°	110813
20°	95219
25°	79174
30°	66318
35°	57428
40°	44942
45°	25791
50°	10602
55°	4747
60°	3415
65°	3240
70°	1978
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	10.4
10°-20°	186.4	24.2
20°-30°	205.6	26.7
30°-40°	180.0	23.4
40°-50°	89.6	11.6
50°-60°	18.0	2.3
60°-70°	8.4	1.1
70°-80°	1.4	0.2
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°	472.3	61.3
0°-40°	652.3	84.7
0°-60°	760.0	98.7
0°-90°	770.3	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°	888	
5°	869	80
15°	664	186
25°	445	206
35°	292	180
45°	113	90
55°	17	18
65°	8	8
75°	0	1
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	887.6
2.5°	886.6
5°	868.6
7.5°	834.7
10°	788.2
12.5°	727.9
15°	664.4
17.5°	613.6
20°	555.4
22.5°	502.5
25°	445.4
27.5°	396.7
30°	356.5
32.5°	323.7
35°	292.0
37.5°	256.0
40°	213.7
42.5°	165.0
45°	113.2
47.5°	66.7
50°	42.3
52.5°	23.3
55°	16.9
57.5°	14.8
60°	10.6
62.5°	10.6
65°	8.5
67.5°	7.4
70°	4.2
72.5°	3.2
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	1.1
90°	0.0

(END OF REPORT)