

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: P123693

Luminaire Tested: **EL406927-TL402HS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123693
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: EL406927-TL402HS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
HAZE REFLECTOR, SOLITE® LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 2700K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

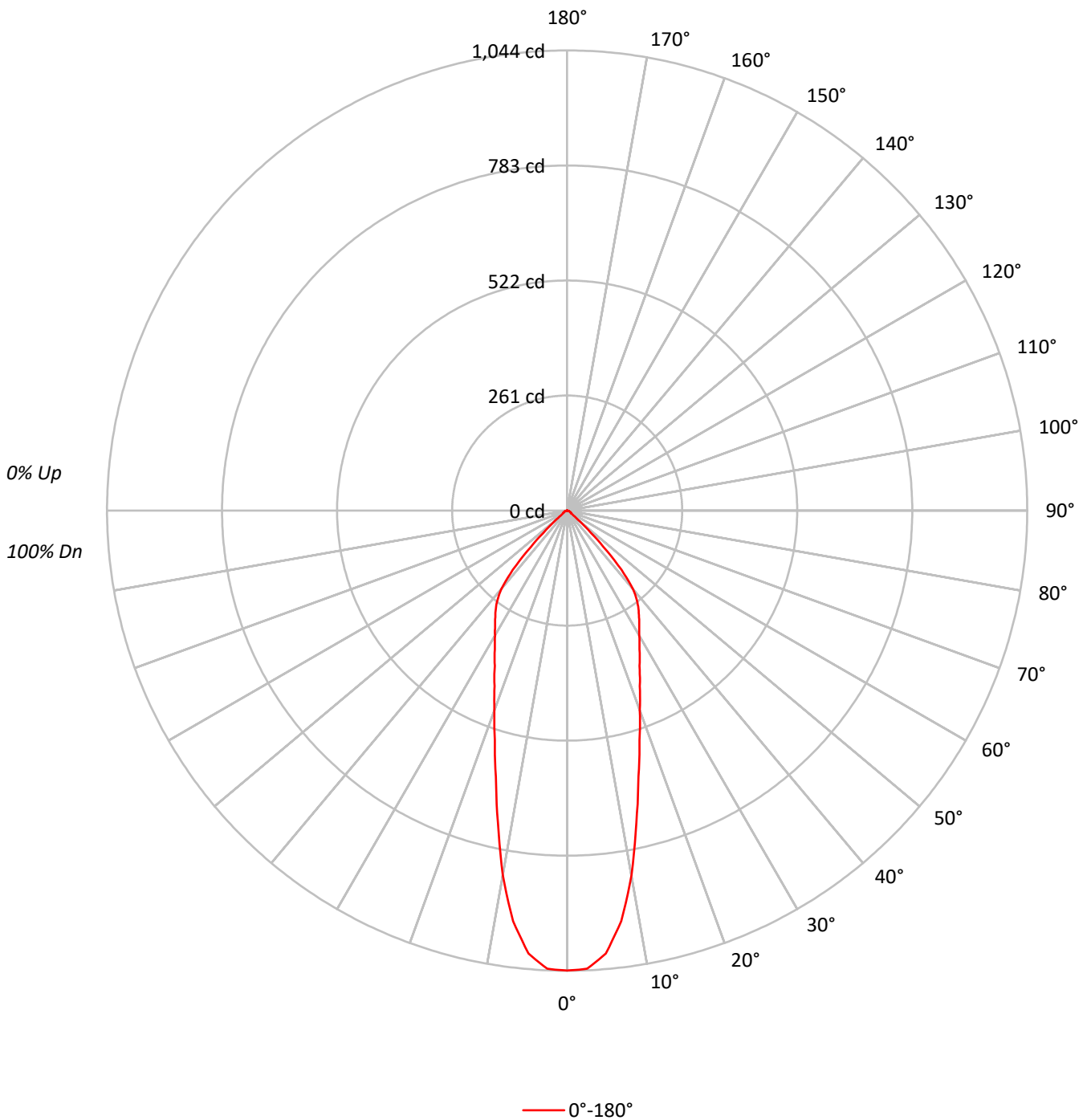
Lumens per Lamp: N/A
Luminaire Lumens: 740.0 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.71
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P123693
CATALOG NUMBER: EL406927-TL402HS

Luminous Intensity Polar Plot





TEST NUMBER: P123693

CATALOG NUMBER: EL406927-TL402HS

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°	228819
5°	221989
10°	187015
15°	141794
20°	112546
25°	94070
30°	82899
35°	75891
40°	66668
45°	36252
50°	10644
55°	4473
60°	3859
65°	4047
70°	1859
75°	847
80°	0
85°	2516



TEST NUMBER: P123693

CATALOG NUMBER: EL406927-TL402HS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	12.3
10°-20°	176.0	23.8
20°-30°	180.8	24.4
30°-40°	176.3	23.8
40°-50°	93.6	12.7
50°-60°	12.6	1.7
60°-70°	7.4	1.0
70°-80°	1.9	0.3
80°-90°	0.5	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°	447.5	60.5
0°-40°	623.8	84.3
0°-60°	730.1	98.7
0°-90°	740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1044	
5°	1008	91
15°	625	176
25°	389	181
35°	284	176
45°	117	94
55°	12	13
65°	8	7
75°	1	2
85°	1	1
90°	0	



TEST NUMBER: P123693

CATALOG NUMBER: EL406927-TL402HS

CANDELA DISTRIBUTION (FULL):

0°	
0°	1043.5
2.5°	1040.6
5°	1008.5
7.5°	939.3
10°	839.9
12.5°	724.9
15°	624.6
17.5°	545.6
20°	482.3
22.5°	430.7
25°	388.8
27.5°	355.6
30°	327.4
32.5°	304.0
35°	283.5
37.5°	262.1
40°	232.9
42.5°	182.2
45°	116.9
47.5°	64.3
50°	31.2
52.5°	15.6
55°	11.7
57.5°	9.7
60°	8.8
62.5°	9.7
65°	7.8
67.5°	6.8
70°	2.9
72.5°	4.9
75°	1.0
77.5°	0.0
80°	0.0
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0

(END OF REPORT)