

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: P123733

Luminaire Tested: **EL406927-TL422PS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13992)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406927-TL422PS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
WHITE BAFFLE, POLYMER LENSED SHOWER TRIM AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 2700K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

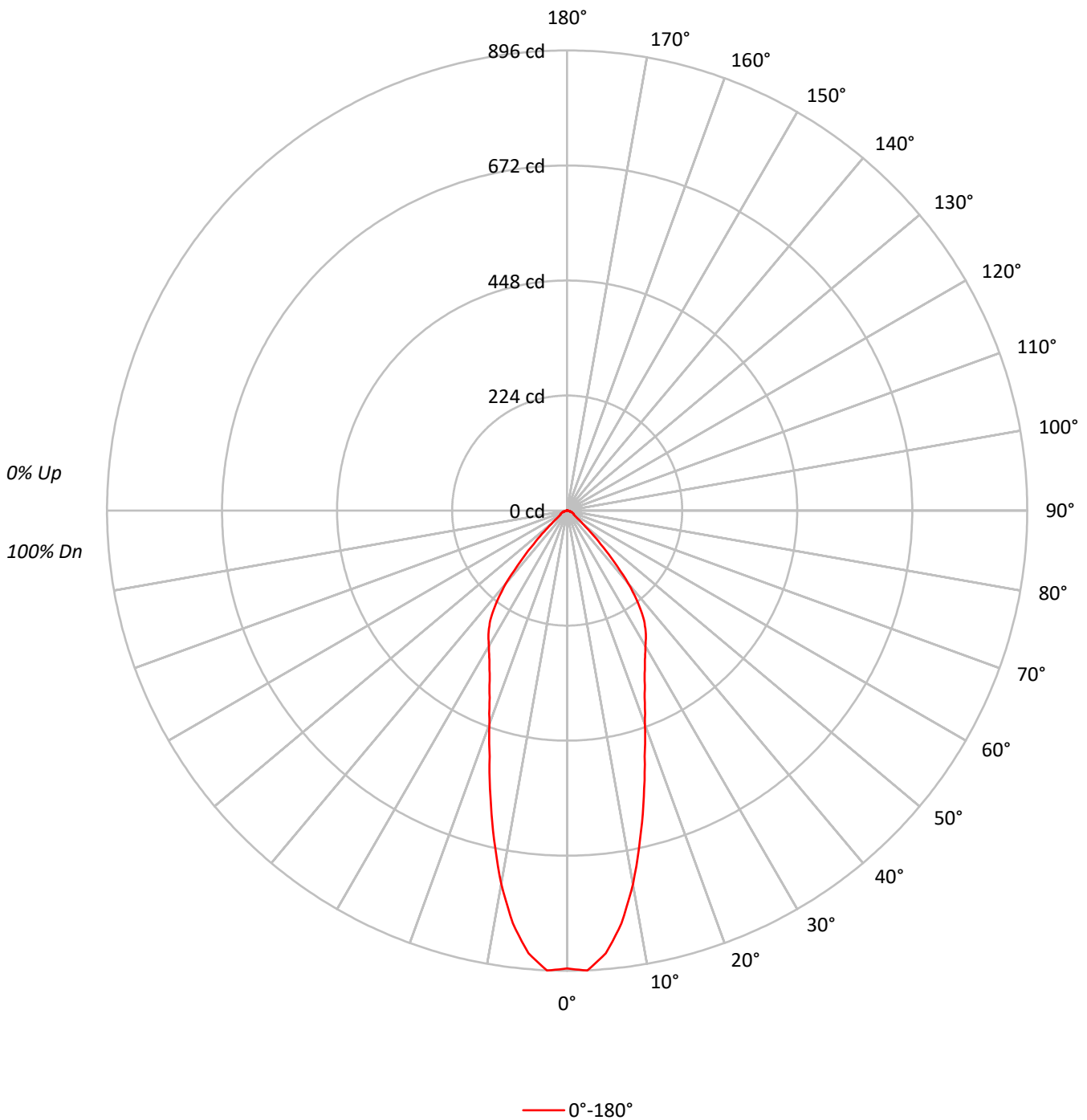
Lumens per Lamp: N/A
Luminaire Lumens: 680.0 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.75
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

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	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	143640
5°	139968
10°	120778
15°	96136
20°	75846
25°	63389
30°	56664
35°	51371
40°	39117
45°	21075
50°	9674
55°	5421
60°	4672
65°	5146
70°	3156
75°	2428
80°	3618
85°	1848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	11.5
10°-20°	160.4	23.6
20°-30°	166.2	24.4
30°-40°	158.6	23.3
40°-50°	75.8	11.1
50°-60°	20.0	2.9
60°-70°	11.9	1.8
70°-80°	6.5	1.0
80°-90°	2.1	0.3
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°	405.1	59.6
0°-40°	563.7	82.9
0°-60°	659.5	97.0
0°-90°	680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	892	
5°	866	78
15°	576	160
25°	357	166
35°	261	159
45°	92	76
55°	19	20
65°	14	12
75°	4	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	891.6
2.5°	896.4
5°	865.5
7.5°	810.6
10°	738.3
12.5°	656.4
15°	576.4
17.5°	502.2
20°	442.4
22.5°	394.2
25°	356.6
27.5°	327.7
30°	304.6
32.5°	285.3
35°	261.2
37.5°	227.5
40°	186.0
42.5°	134.9
45°	92.5
47.5°	59.8
50°	38.6
52.5°	28.0
55°	19.3
57.5°	16.4
60°	14.5
62.5°	13.5
65°	13.5
67.5°	10.6
70°	6.7
72.5°	9.6
75°	3.9
77.5°	5.8
80°	3.9
82.5°	2.9
85°	1.0
87.5°	1.9
90°	0.0

(END OF REPORT)