

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: P123696

Luminaire Tested: **EL406940-TL402HS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123696
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: EL406940-TL402HS
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
HAZE REFLECTOR, SOLITE® LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 4000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

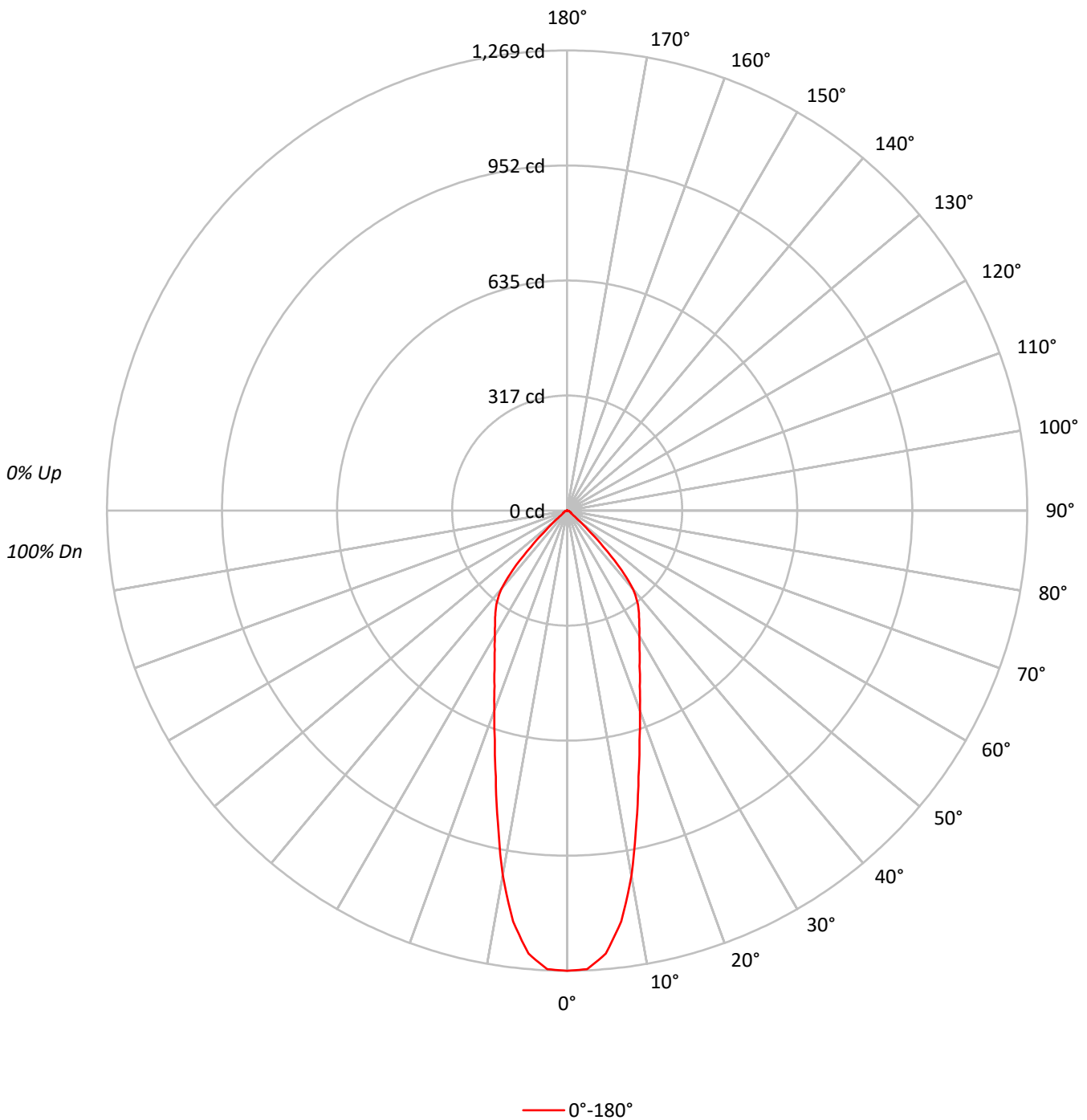
Lumens per Lamp: N/A
Luminaire Lumens: 900.0 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.71
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	278311
5°	269975
10°	227451
15°	172441
20°	136885
25°	114394
30°	100826
35°	92300
40°	81066
45°	44098
50°	12929
55°	5429
60°	4693
65°	4929
70°	2308
75°	1017
80°	0
85°	3019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	12.3
10°-20°	214.0	23.8
20°-30°	219.8	24.4
30°-40°	214.4	23.8
40°-50°	113.9	12.7
50°-60°	15.4	1.7
60°-70°	9.1	1.0
70°-80°	2.3	0.3
80°-90°	0.7	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°	544.2	60.5
0°-40°	758.7	84.3
0°-60°	888.0	98.7
0°-90°	900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	900.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1269	
5°	1226	110
15°	760	214
25°	473	220
35°	345	214
45°	142	114
55°	14	15
65°	10	9
75°	1	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1269.2
2.5°	1265.6
5°	1226.5
7.5°	1142.4
10°	1021.5
12.5°	881.7
15°	759.6
17.5°	663.6
20°	586.6
22.5°	523.8
25°	472.8
27.5°	432.5
30°	398.2
32.5°	369.7
35°	344.8
37.5°	318.8
40°	283.2
42.5°	221.6
45°	142.2
47.5°	78.2
50°	37.9
52.5°	19.0
55°	14.2
57.5°	11.9
60°	10.7
62.5°	11.9
65°	9.5
67.5°	8.3
70°	3.6
72.5°	5.9
75°	1.2
77.5°	0.0
80°	0.0
82.5°	1.2
85°	1.2
87.5°	0.0
90°	0.0

(END OF REPORT)