

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 COMMERCIAL

Report Number: P580993

Luminaire Tested: **HC405D010-HM40525830-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC405D010-HM40525830-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 560.9 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

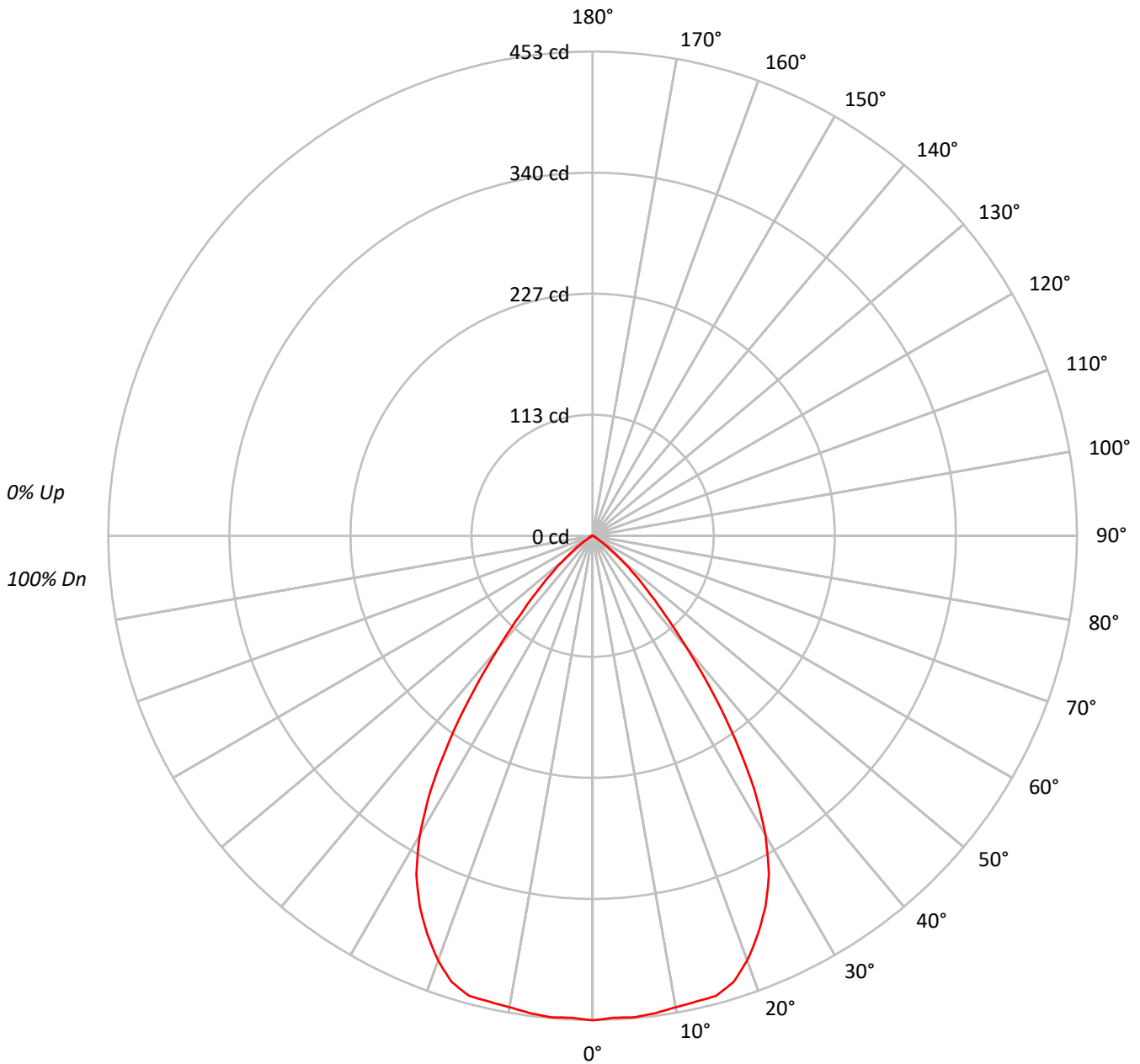
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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			100																
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93																
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85																
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78			78																
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72			72																
5	90	81	74	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61																
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56																
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49			49																
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55925
5°	55990
10°	56099
15°	56914
20°	55497
25°	52071
30°	46061
35°	35024
40°	22059
45°	12664
50°	6716
55°	2774
60°	765
65°	642
70°	433
75°	429
80°	355
85°	708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	7.7
10°-20°	124.8	22.2
20°-30°	174.2	31.1
30°-40°	143.3	25.5
40°-50°	59.0	10.5
50°-60°	13.3	2.4
60°-70°	2.1	0.4
70°-80°	0.8	0.1
80°-90°	0.3	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°	342.0	61.0
0°-40°	485.3	86.5
0°-60°	557.6	99.4
0°-90°	560.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	560.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	453	
5°	452	43
15°	446	125
25°	383	174
35°	233	143
45°	73	59
55°	13	13
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	453.4
2.5°	451.3
5°	452.2
7.5°	450.4
10°	447.9
12.5°	446.5
15°	445.7
17.5°	437.9
20°	422.8
22.5°	403.7
25°	382.6
27.5°	357.1
30°	323.4
32.5°	281.8
35°	232.6
37.5°	182.8
40°	137.0
42.5°	99.9
45°	72.6
47.5°	51.9
50°	35.0
52.5°	22.0
55°	12.9
57.5°	6.5
60°	3.1
62.5°	2.6
65°	2.2
67.5°	1.7
70°	1.2
72.5°	0.9
75°	0.9
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)