

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: P583581

Luminaire Tested: **HC807D010-HM80520830-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520830-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 833.5 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

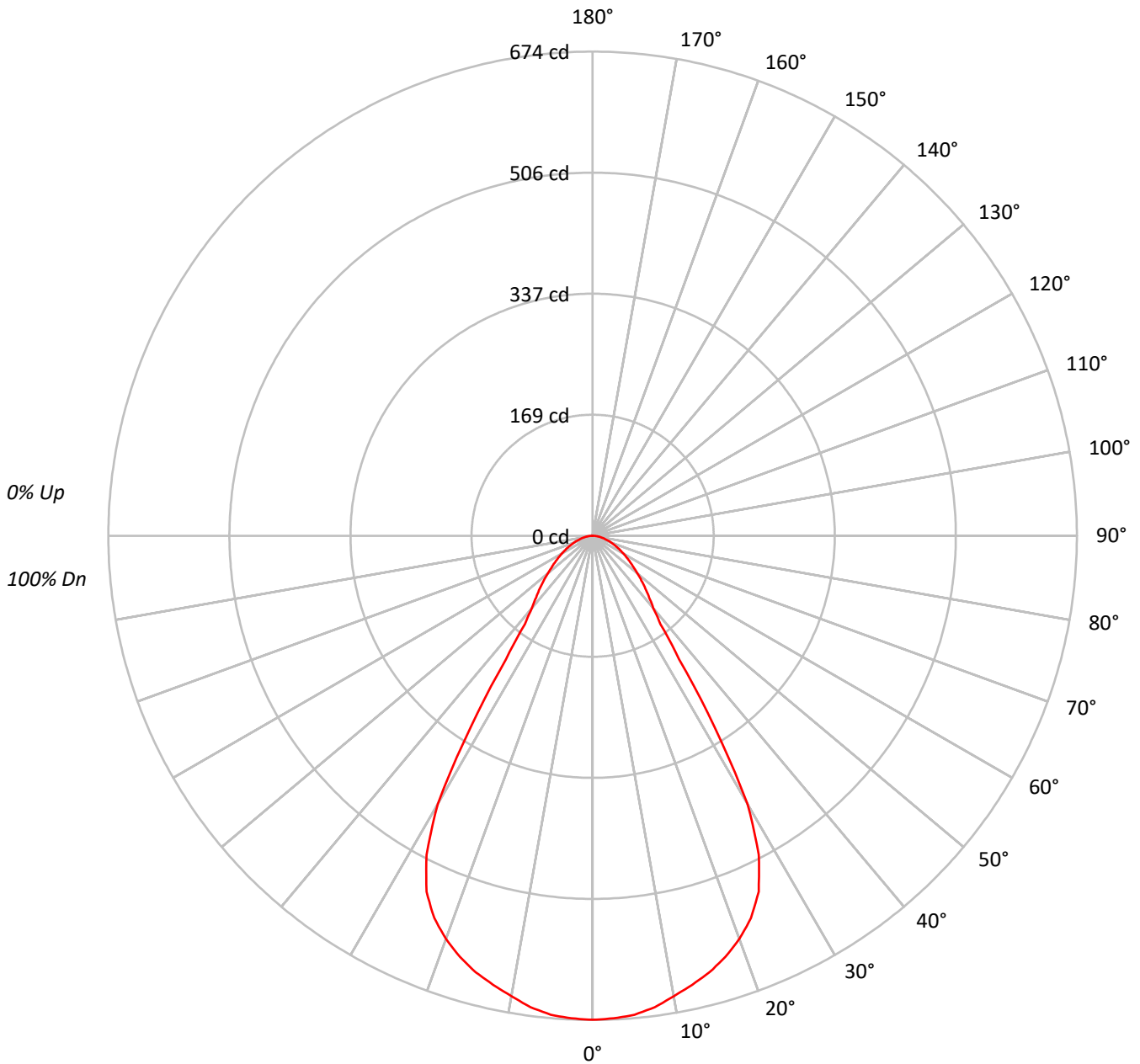
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			73
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20774
5°	20718
10°	20375
15°	20077
20°	19594
25°	18601
30°	15343
35°	7898
40°	5285
45°	4535
50°	3915
55°	3414
60°	3034
65°	2729
70°	2470
75°	2216
80°	1989
85°	1981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	7.6
10°-20°	176.9	21.2
20°-30°	245.2	29.4
30°-40°	147.2	17.7
40°-50°	80.6	9.7
50°-60°	57.3	6.9
60°-70°	37.2	4.5
70°-80°	19.9	2.4
80°-90°	5.9	0.7
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°	485.4	58.2
0°-40°	632.6	75.9
0°-60°	770.5	92.4
0°-90°	833.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	833.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	674	
5°	669	63
15°	629	177
25°	547	245
35°	210	147
45°	104	81
55°	64	57
65°	37	37
75°	19	20
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	673.7
2.5°	672.4
5°	669.3
7.5°	661.9
10°	650.7
12.5°	640.2
15°	628.9
17.5°	614.6
20°	597.1
22.5°	576.0
25°	546.7
27.5°	500.6
30°	430.9
32.5°	315.7
35°	209.8
37.5°	155.0
40°	131.3
42.5°	116.4
45°	104.0
47.5°	92.1
50°	81.6
52.5°	71.6
55°	63.5
57.5°	56.0
60°	49.2
62.5°	43.0
65°	37.4
67.5°	31.8
70°	27.4
72.5°	22.5
75°	18.6
77.5°	14.9
80°	11.2
82.5°	8.1
85°	5.6
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)