

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: P583564

Luminaire Tested: **HC807D010-HM80520827-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583564
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-HM80520827-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 838.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

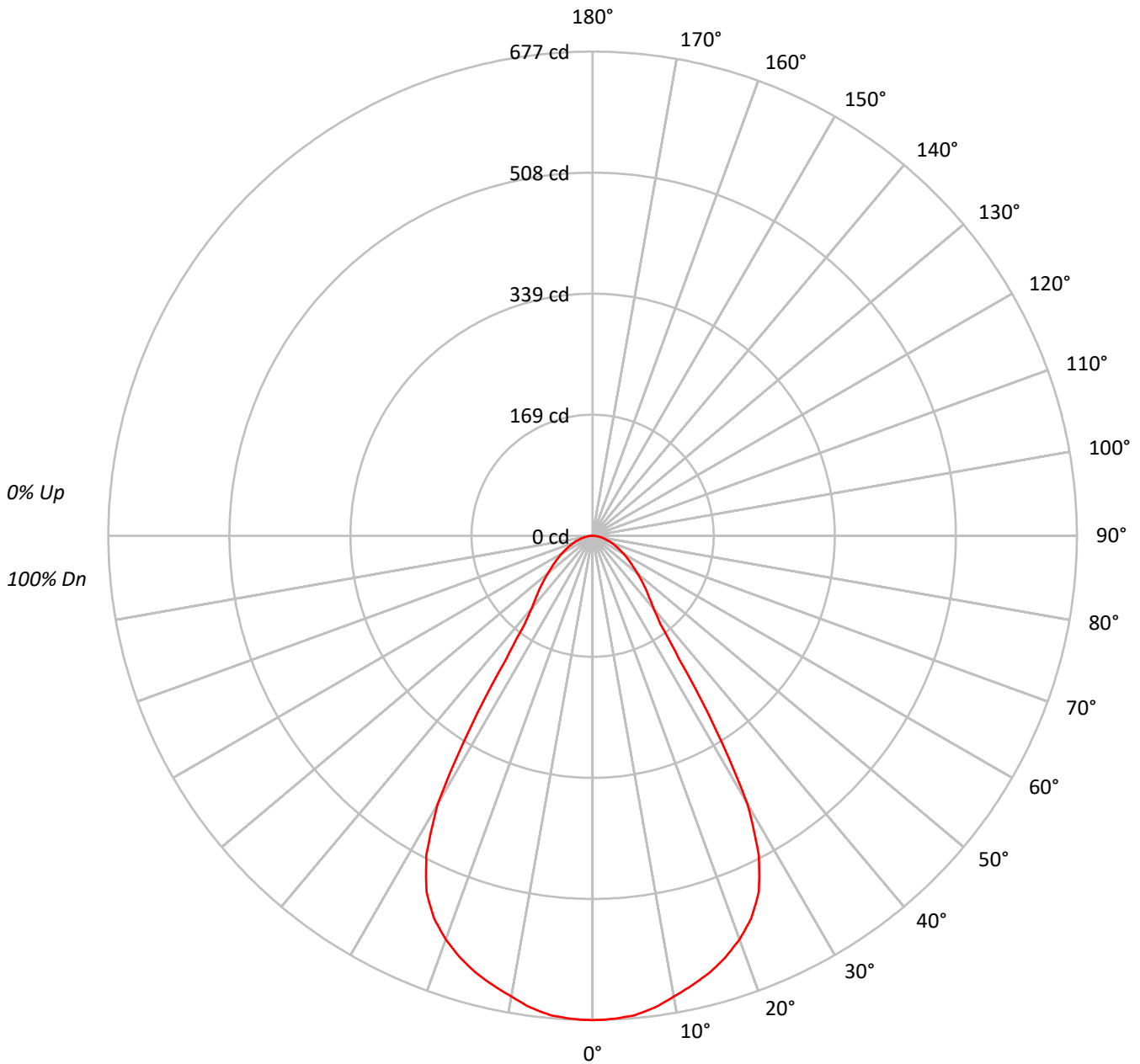
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20889
5°	20832
10°	20487
15°	20186
20°	19702
25°	18703
30°	15425
35°	7943
40°	5314
45°	4562
50°	3934
55°	3430
60°	3053
65°	2736
70°	2488
75°	2240
80°	1989
85°	1981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	7.6
10°-20°	177.9	21.2
20°-30°	246.5	29.4
30°-40°	148.0	17.7
40°-50°	81.0	9.7
50°-60°	57.6	6.9
60°-70°	37.3	4.5
70°-80°	20.0	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°	488.0	58.2
0°-40°	636.1	75.9
0°-60°	774.7	92.4
0°-90°	838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	677	
5°	673	64
15°	632	178
25°	550	246
35°	211	148
45°	105	81
55°	64	58
65°	38	37
75°	19	20
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	677.4
2.5°	676.1
5°	673.0
7.5°	665.5
10°	654.3
12.5°	643.6
15°	632.3
17.5°	617.9
20°	600.4
22.5°	579.1
25°	549.7
27.5°	503.3
30°	433.2
32.5°	317.4
35°	211.0
37.5°	155.9
40°	132.0
42.5°	117.1
45°	104.6
47.5°	92.6
50°	82.0
52.5°	71.9
55°	63.8
57.5°	56.4
60°	49.5
62.5°	43.1
65°	37.5
67.5°	31.9
70°	27.6
72.5°	22.6
75°	18.8
77.5°	15.1
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)