

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: P593508

Luminaire Tested: **HC807D010-HM80520950-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593508
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-HM80520950-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 819.4 lumens
Efficiency: N/A
Efficacy: 102.4 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

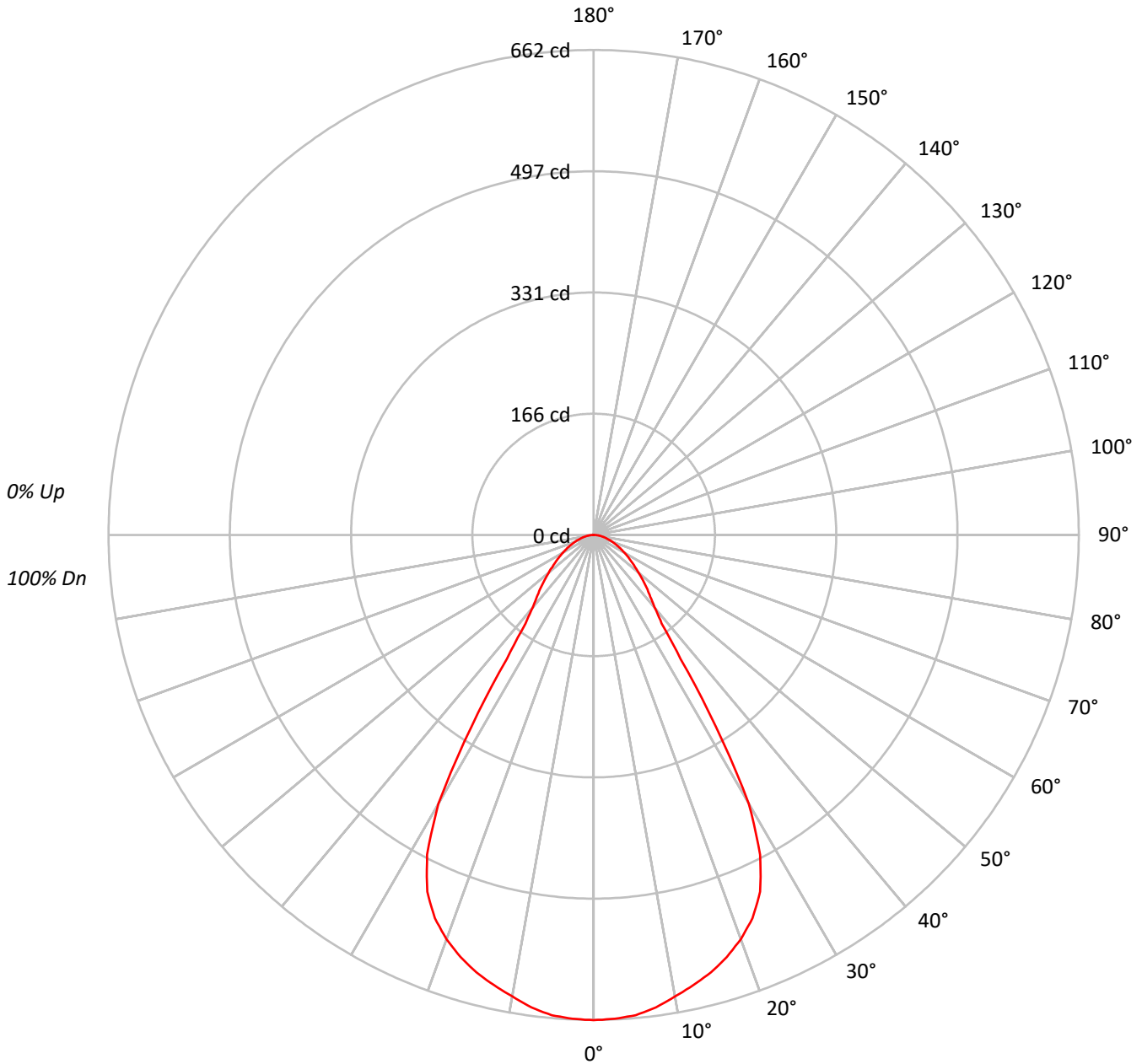
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20426
5°	20371
10°	20030
15°	19739
20°	19266
25°	18288
30°	15083
35°	7766
40°	5201
45°	4457
50°	3847
55°	3360
60°	2985
65°	2678
70°	2425
75°	2192
80°	1953
85°	1946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	7.6
10°-20°	174.0	21.2
20°-30°	241.0	29.4
30°-40°	144.8	17.7
40°-50°	79.3	9.7
50°-60°	56.3	6.9
60°-70°	36.5	4.5
70°-80°	19.5	2.4
80°-90°	5.8	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°	477.2	58.2
0°-40°	622.0	75.9
0°-60°	757.5	92.4
0°-90°	819.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	819.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	662	
5°	658	62
15°	618	174
25°	538	241
35°	206	145
45°	102	79
55°	62	56
65°	37	37
75°	18	20
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	662.4
2.5°	661.1
5°	658.1
7.5°	650.7
10°	639.7
12.5°	629.3
15°	618.3
17.5°	604.2
20°	587.1
22.5°	566.2
25°	537.5
27.5°	492.2
30°	423.6
32.5°	310.3
35°	206.3
37.5°	152.5
40°	129.2
42.5°	114.5
45°	102.2
47.5°	90.6
50°	80.2
52.5°	70.4
55°	62.5
57.5°	55.1
60°	48.4
62.5°	42.2
65°	36.7
67.5°	31.2
70°	26.9
72.5°	22.0
75°	18.4
77.5°	14.7
80°	11.0
82.5°	8.0
85°	5.5
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)