

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: P583717

Luminaire Tested: **HC810D010-HM80520830-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583717
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: HC810D010-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: 1037.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

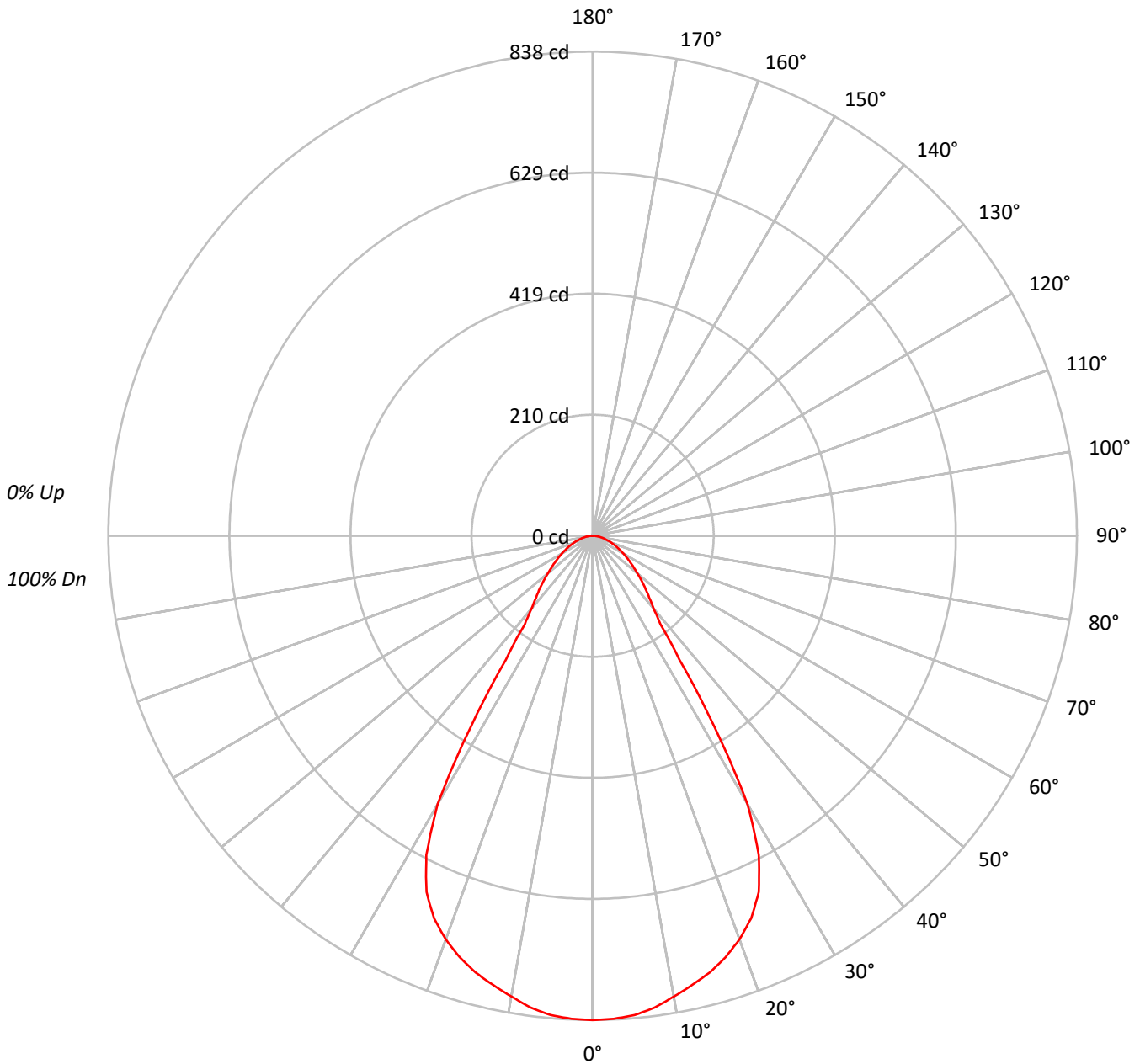
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25850
5°	25782
10°	25353
15°	24981
20°	24385
25°	23143
30°	19089
35°	9829
40°	6582
45°	5639
50°	4864
55°	4247
60°	3774
65°	3393
70°	3074
75°	2764
80°	2468
85°	2477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	7.6
10°-20°	220.2	21.2
20°-30°	305.0	29.4
30°-40°	183.2	17.7
40°-50°	100.3	9.7
50°-60°	71.2	6.9
60°-70°	46.3	4.5
70°-80°	24.7	2.4
80°-90°	7.4	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°	603.9	58.2
0°-40°	787.2	75.9
0°-60°	958.7	92.4
0°-90°	1037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1037.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	838	
5°	833	79
15°	782	220
25°	680	305
35°	261	183
45°	129	100
55°	79	71
65°	46	46
75°	23	25
85°	7	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	838.3
2.5°	836.7
5°	832.9
7.5°	823.6
10°	809.7
12.5°	796.4
15°	782.5
17.5°	764.7
20°	743.1
22.5°	716.6
25°	680.2
27.5°	622.9
30°	536.1
32.5°	392.8
35°	261.1
37.5°	192.9
40°	163.5
42.5°	144.8
45°	129.3
47.5°	114.7
50°	101.4
52.5°	89.1
55°	79.0
57.5°	69.7
60°	61.2
62.5°	53.5
65°	46.5
67.5°	39.5
70°	34.1
72.5°	27.9
75°	23.2
77.5°	18.6
80°	13.9
82.5°	10.1
85°	7.0
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)