

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: P593602

Luminaire Tested: **HC820D010-HM80520950-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520950-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2344.4 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

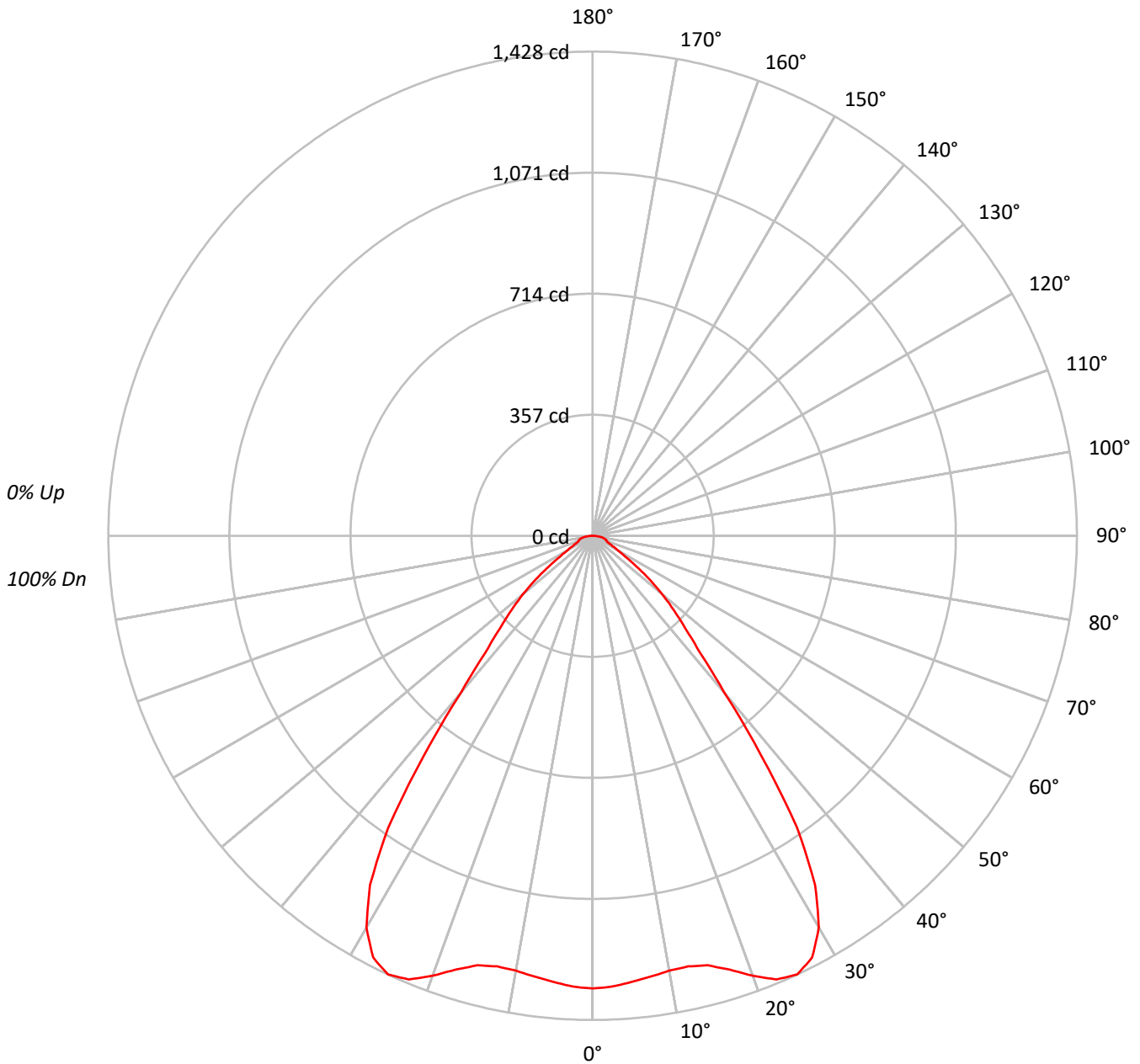
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41173
5°	40890
10°	40781
15°	41856
20°	45311
25°	48576
30°	47492
35°	39549
40°	24293
45°	16824
50°	12838
55°	8419
60°	5273
65°	3947
70°	3976
75°	4575
80°	5061
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	5.4
10°-20°	376.4	16.1
20°-30°	647.9	27.6
30°-40°	627.7	26.8
40°-50°	309.2	13.2
50°-60°	145.9	6.2
60°-70°	57.5	2.5
70°-80°	39.7	1.7
80°-90°	14.7	0.6
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°	1149.8	49.0
0°-40°	1777.5	75.8
0°-60°	2232.5	95.2
0°-90°	2344.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2344.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1335	
5°	1321	126
15°	1311	376
25°	1428	648
35°	1051	628
45°	386	309
55°	157	146
65°	54	57
75°	38	40
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1335.2
2.5°	1330.9
5°	1321.0
7.5°	1311.1
10°	1302.4
12.5°	1301.0
15°	1311.1
17.5°	1341.0
20°	1380.8
22.5°	1416.4
25°	1427.7
27.5°	1402.1
30°	1333.8
32.5°	1221.4
35°	1050.6
37.5°	815.7
40°	603.5
42.5°	468.3
45°	385.8
47.5°	324.6
50°	267.6
52.5°	210.6
55°	156.6
57.5°	113.8
60°	85.5
62.5°	66.9
65°	54.1
67.5°	46.9
70°	44.1
72.5°	41.3
75°	38.4
77.5°	34.2
80°	28.5
82.5°	21.4
85°	12.8
87.5°	5.7
90°	0.0



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— 0°-180°







(END OF REPORT)