

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: P584010

Luminaire Tested: **HC820D010-HM80520835-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584010
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-HM80520835-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2480.9 lumens
Efficiency: N/A
Efficacy: 124.0 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

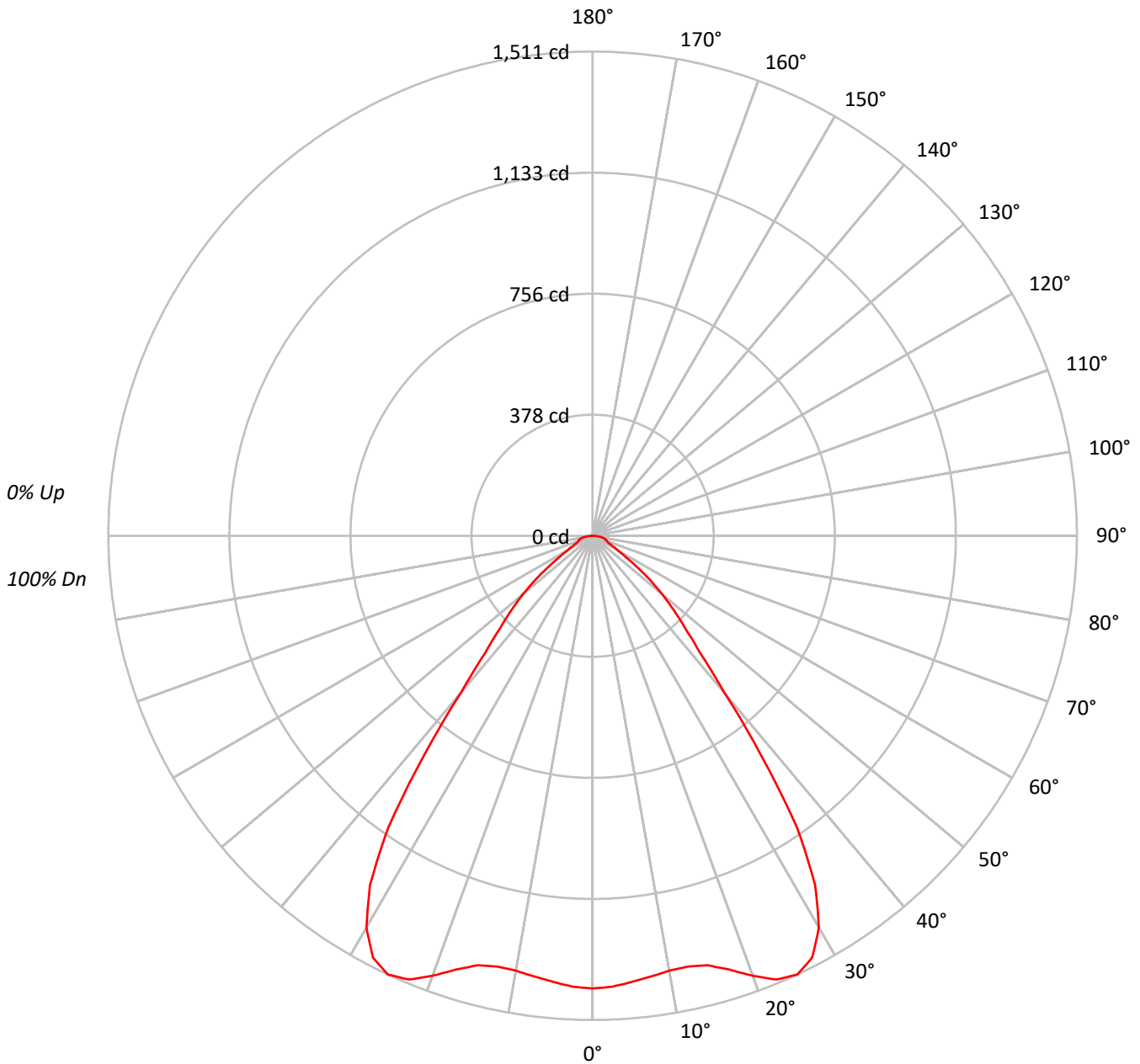
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	43572
5°	43268
10°	43157
15°	44288
20°	47950
25°	51404
30°	50255
35°	41849
40°	25706
45°	17806
50°	13586
55°	8908
60°	5575
65°	4174
70°	4210
75°	4849
80°	5345
85°	4812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	5.4
10°-20°	398.3	16.1
20°-30°	685.6	27.6
30°-40°	664.2	26.8
40°-50°	327.2	13.2
50°-60°	154.4	6.2
60°-70°	60.9	2.5
70°-80°	42.0	1.7
80°-90°	15.6	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°	1216.7	49.0
0°-40°	1880.9	75.8
0°-60°	2362.5	95.2
0°-90°	2480.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1413	
5°	1398	133
15°	1387	398
25°	1511	686
35°	1112	664
45°	408	327
55°	166	154
65°	57	61
75°	41	42
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1413.0
2.5°	1408.5
5°	1397.8
7.5°	1387.3
10°	1378.3
12.5°	1376.8
15°	1387.3
17.5°	1419.0
20°	1461.2
22.5°	1498.8
25°	1510.8
27.5°	1483.8
30°	1411.4
32.5°	1292.4
35°	1111.7
37.5°	863.1
40°	638.6
42.5°	495.6
45°	408.3
47.5°	343.5
50°	283.2
52.5°	222.9
55°	165.7
57.5°	120.6
60°	90.4
62.5°	70.8
65°	57.2
67.5°	49.8
70°	46.7
72.5°	43.7
75°	40.7
77.5°	36.2
80°	30.1
82.5°	22.6
85°	13.6
87.5°	6.0
90°	0.0



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— 0°-180°







(END OF REPORT)