

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: P583980

Luminaire Tested: **HC820D010-HM80520827-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583980
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-HM80520827-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2397.7 lumens
Efficiency: N/A
Efficacy: 119.9 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

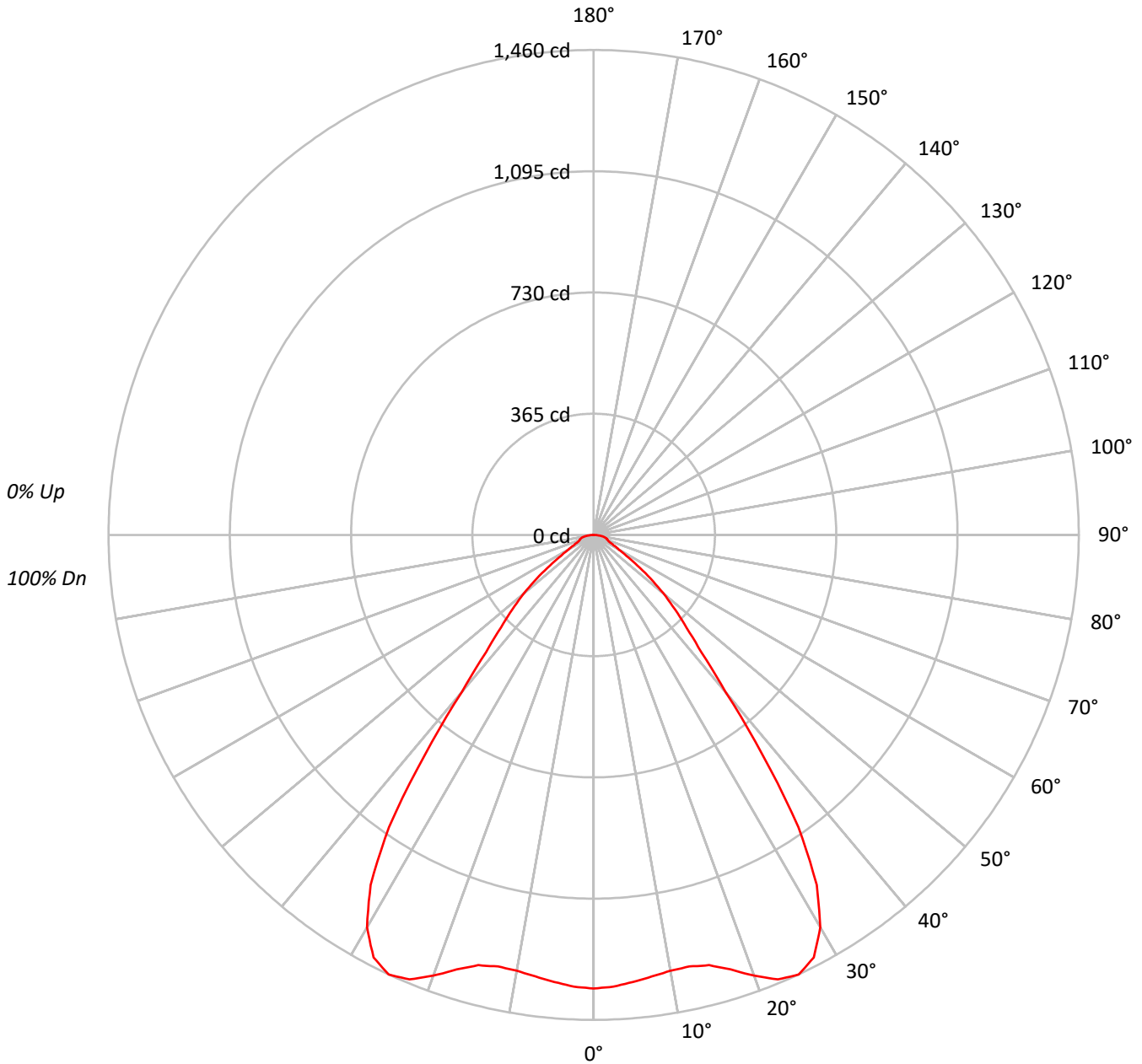
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42110
5°	41819
10°	41711
15°	42807
20°	46339
25°	49682
30°	48571
35°	40445
40°	24845
45°	17208
50°	13135
55°	8613
60°	5384
65°	4035
70°	4075
75°	4694
80°	5168
85°	4635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	5.4
10°-20°	384.9	16.1
20°-30°	662.6	27.6
30°-40°	642.0	26.8
40°-50°	316.2	13.2
50°-60°	149.2	6.2
60°-70°	58.8	2.5
70°-80°	40.6	1.7
80°-90°	15.1	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°	1175.9	49.0
0°-40°	1817.9	75.8
0°-60°	2283.3	95.2
0°-90°	2397.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2397.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1366	
5°	1351	128
15°	1341	385
25°	1460	663
35°	1074	642
45°	395	316
55°	160	149
65°	55	59
75°	39	41
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1365.6
2.5°	1361.2
5°	1351.0
7.5°	1340.9
10°	1332.1
12.5°	1330.7
15°	1340.9
17.5°	1371.4
20°	1412.1
22.5°	1448.5
25°	1460.2
27.5°	1434.0
30°	1364.1
32.5°	1249.1
35°	1074.4
37.5°	834.3
40°	617.2
42.5°	478.9
45°	394.6
47.5°	331.9
50°	273.8
52.5°	215.5
55°	160.2
57.5°	116.4
60°	87.3
62.5°	68.4
65°	55.3
67.5°	48.0
70°	45.2
72.5°	42.2
75°	39.4
77.5°	35.0
80°	29.1
82.5°	21.9
85°	13.1
87.5°	5.8
90°	0.0



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— 0°-180°







(END OF REPORT)