

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: P593594

Luminaire Tested: **HC820D010-HM80520850-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520850-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2406.4 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

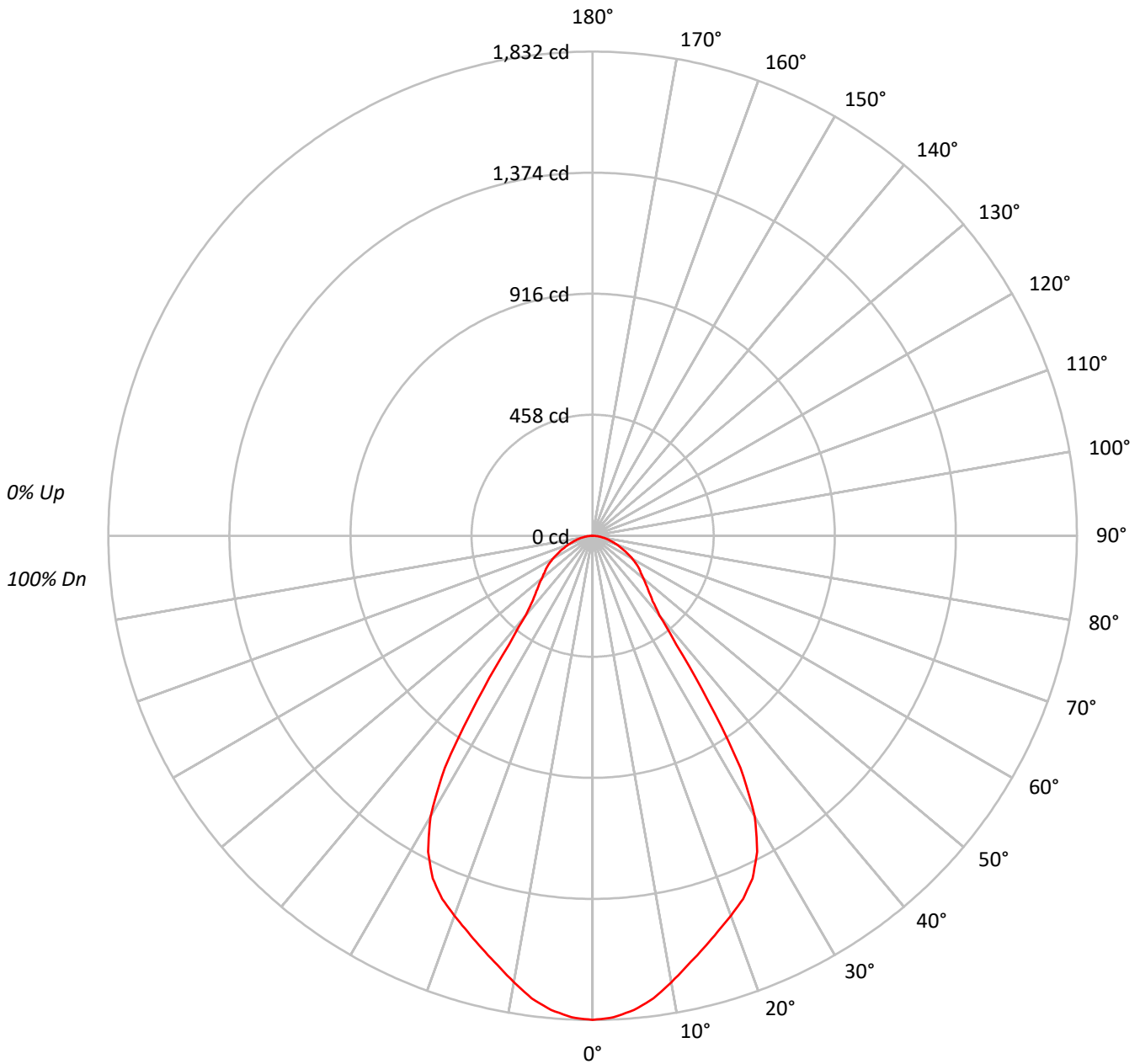
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	56489
5°	55751
10°	53709
15°	51609
20°	50184
25°	48675
30°	43679
35°	28632
40°	15832
45°	13196
50°	12032
55°	11483
60°	10682
65°	9682
70°	8745
75°	7899
80°	7174
85°	6864



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	7.0
10°-20°	456.1	19.0
20°-30°	649.1	27.0
30°-40°	480.4	20.0
40°-50°	237.9	9.9
50°-60°	189.9	7.9
60°-70°	131.8	5.5
70°-80°	71.0	3.0
80°-90°	20.9	0.9
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°	1274.4	53.0
0°-40°	1754.9	72.9
0°-60°	2182.7	90.7
0°-90°	2406.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2406.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1832	
5°	1801	169
15°	1617	456
25°	1431	649
35°	761	480
45°	303	238
55°	214	190
65°	133	132
75°	66	71
85°	19	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1831.9
2.5°	1823.7
5°	1801.1
7.5°	1765.6
10°	1715.3
12.5°	1663.5
15°	1616.6
17.5°	1571.4
20°	1529.3
22.5°	1487.2
25°	1430.6
27.5°	1348.0
30°	1226.7
32.5°	1040.5
35°	760.6
37.5°	519.5
40°	393.3
42.5°	336.6
45°	302.6
47.5°	275.1
50°	250.8
52.5°	229.8
55°	213.6
57.5°	194.2
60°	173.2
62.5°	152.1
65°	132.7
67.5°	113.2
70°	97.0
72.5°	81.0
75°	66.3
77.5°	53.4
80°	40.4
82.5°	29.1
85°	19.4
87.5°	8.0
90°	0.0



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— 0°-180°







(END OF REPORT)