

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: P584071

Luminaire Tested: **HC820D010-HM80520935-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584071
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-HM80520935-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2055.6 lumens
Efficiency: N/A
Efficacy: 102.8 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

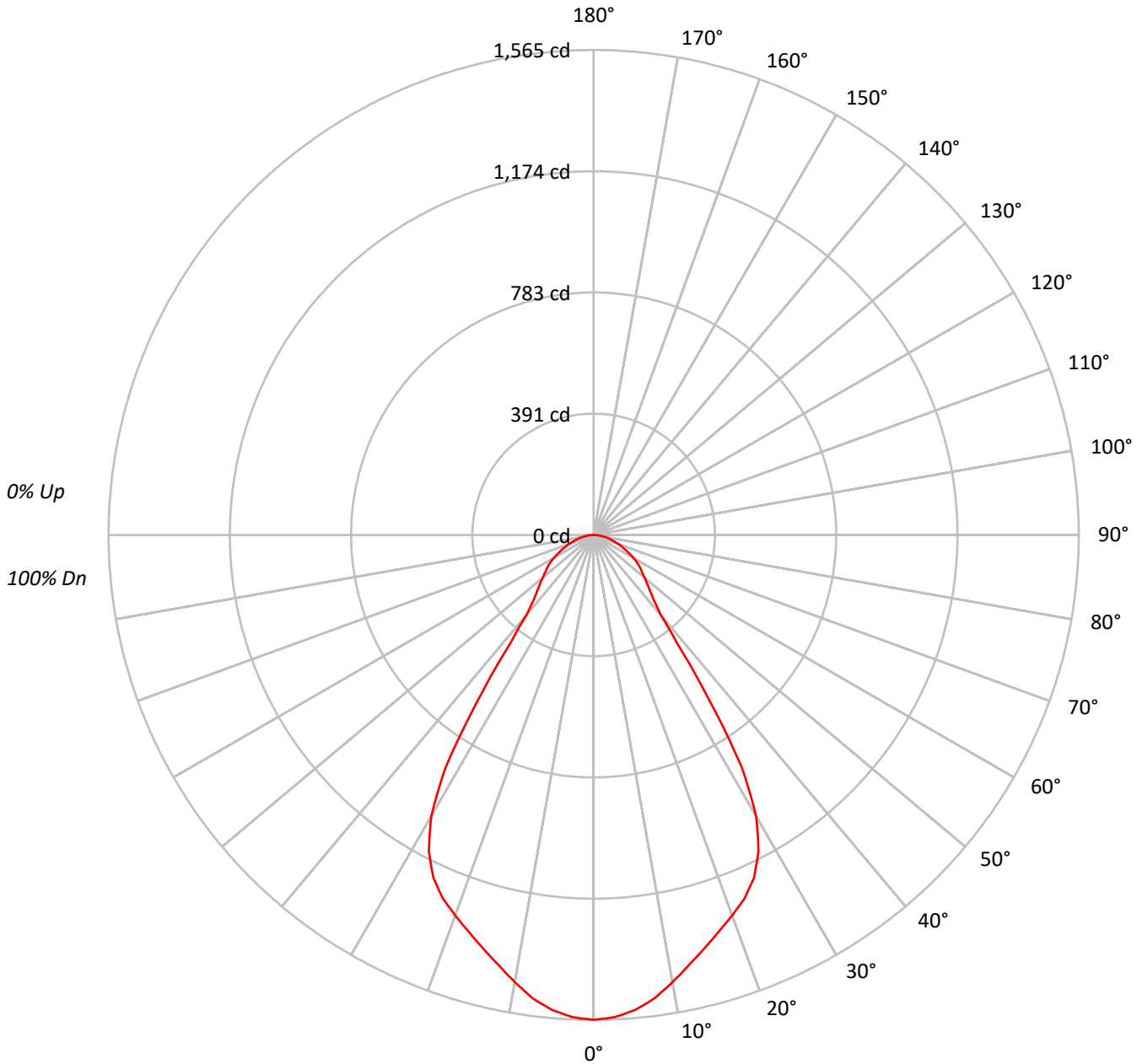
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	48253
5°	47623
10°	45881
15°	44084
20°	42867
25°	41577
30°	37309
35°	24457
40°	13521
45°	11273
50°	10281
55°	9811
60°	9121
65°	8274
70°	7483
75°	6743
80°	6126
85°	5838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	7.0
10°-20°	389.6	19.0
20°-30°	554.5	27.0
30°-40°	410.4	20.0
40°-50°	203.3	9.9
50°-60°	162.2	7.9
60°-70°	112.6	5.5
70°-80°	60.7	3.0
80°-90°	17.8	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°	1088.6	53.0
0°-40°	1499.0	72.9
0°-60°	1864.5	90.7
0°-90°	2055.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2055.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1565	
5°	1538	145
15°	1381	390
25°	1222	554
35°	650	410
45°	258	203
55°	182	162
65°	113	113
75°	57	61
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1564.8
2.5°	1557.9
5°	1538.5
7.5°	1508.1
10°	1465.3
12.5°	1421.0
15°	1380.9
17.5°	1342.3
20°	1306.3
22.5°	1270.4
25°	1222.0
27.5°	1151.5
30°	1047.8
32.5°	888.9
35°	649.7
37.5°	443.7
40°	335.9
42.5°	287.6
45°	258.5
47.5°	235.0
50°	214.3
52.5°	196.3
55°	182.5
57.5°	165.8
60°	147.9
62.5°	129.9
65°	113.4
67.5°	96.8
70°	83.0
72.5°	69.1
75°	56.6
77.5°	45.6
80°	34.5
82.5°	24.9
85°	16.5
87.5°	6.9
90°	0.0



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— 0°-180°







(END OF REPORT)