

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: P584067

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520935-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2047.4 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

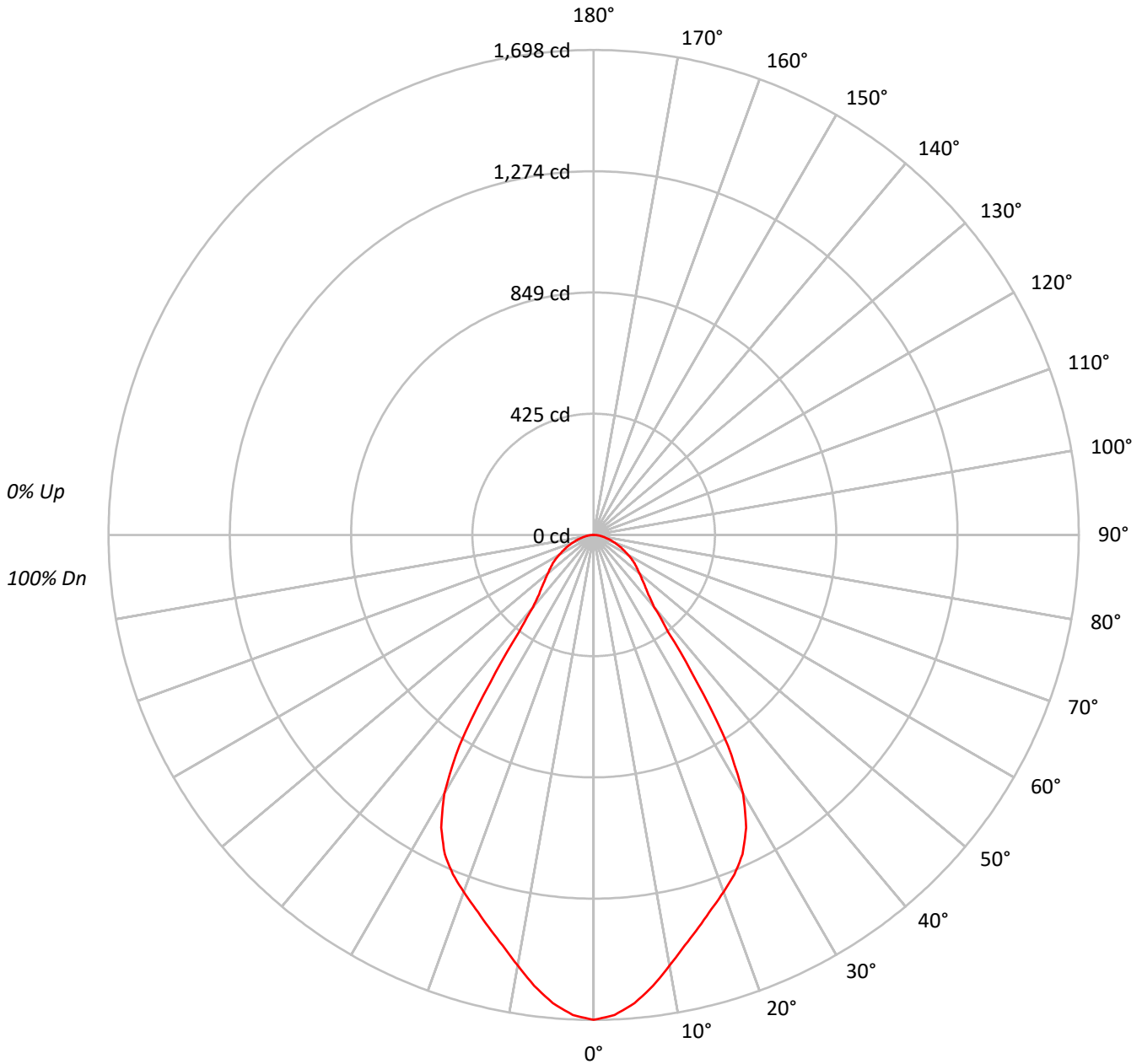
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52351
5°	50926
10°	47923
15°	45371
20°	43644
25°	41959
30°	37262
35°	23735
40°	13248
45°	11094
50°	10012
55°	9435
60°	8609
65°	7771
70°	6852
75°	6100
80°	5398
85°	4883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	7.5
10°-20°	400.8	19.6
20°-30°	559.2	27.3
30°-40°	402.4	19.7
40°-50°	199.4	9.7
50°-60°	156.0	7.6
60°-70°	105.6	5.2
70°-80°	54.9	2.7
80°-90°	15.8	0.8
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°	1113.4	54.4
0°-40°	1515.7	74.0
0°-60°	1871.1	91.4
0°-90°	2047.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2047.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1698	
5°	1645	153
15°	1421	401
25°	1233	559
35°	630	402
45°	254	199
55°	176	156
65°	106	106
75°	51	55
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1697.7
2.5°	1682.5
5°	1645.2
7.5°	1592.6
10°	1530.5
12.5°	1472.4
15°	1421.2
17.5°	1372.8
20°	1330.0
22.5°	1287.1
25°	1233.2
27.5°	1155.8
30°	1046.5
32.5°	875.2
35°	630.5
37.5°	430.0
40°	329.1
42.5°	283.4
45°	254.4
47.5°	229.5
50°	208.7
52.5°	190.8
55°	175.5
57.5°	157.6
60°	139.6
62.5°	121.6
65°	106.5
67.5°	91.3
70°	76.0
72.5°	63.6
75°	51.2
77.5°	40.1
80°	30.4
82.5°	22.1
85°	13.8
87.5°	6.9
90°	0.0



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— 0°-180°







(END OF REPORT)