

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: P583986

Luminaire Tested: **HC820D010-HM80520830-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583986
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-HM80520830-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2144.4 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

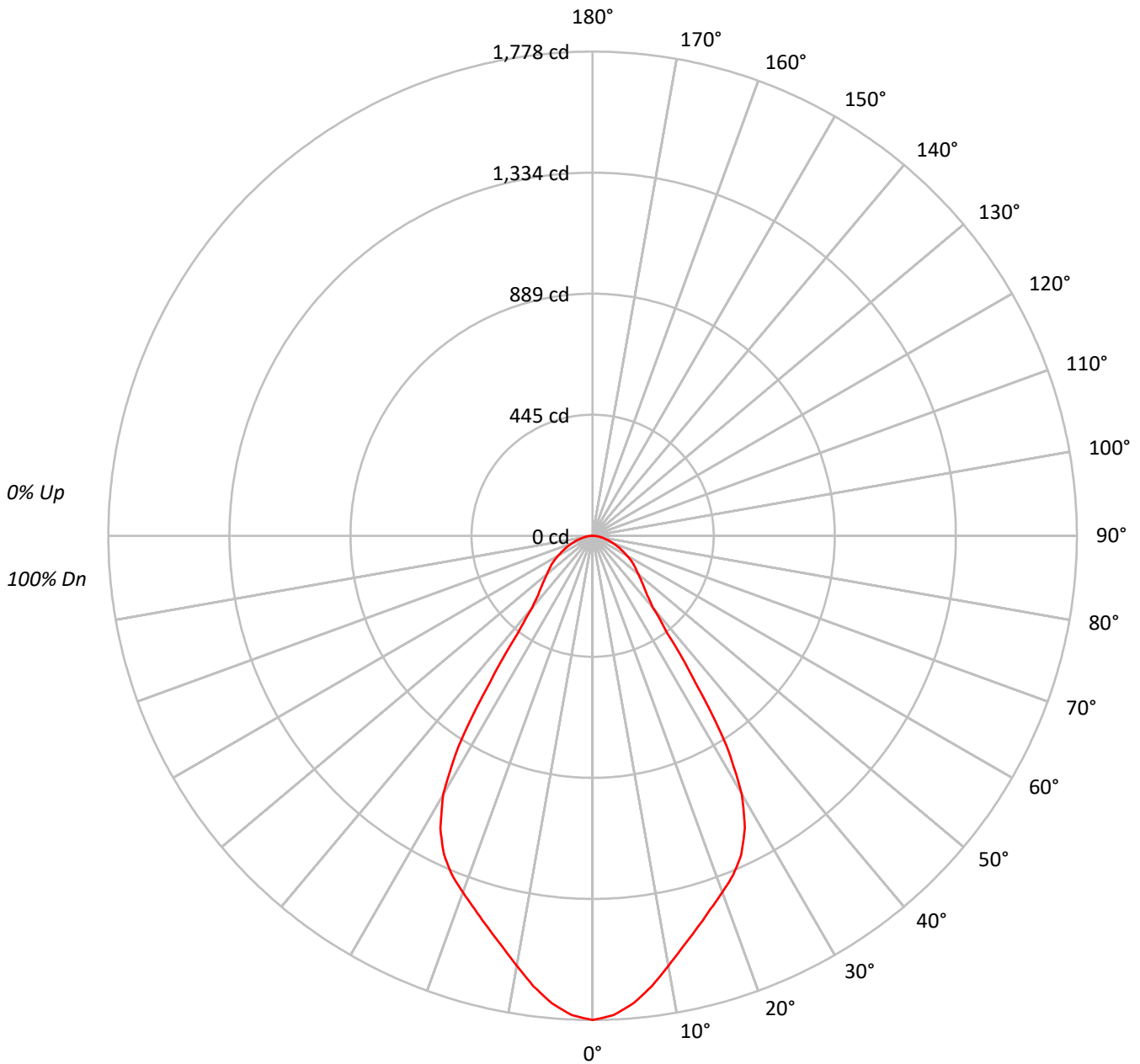
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	54830
5°	53337
10°	50190
15°	47519
20°	45712
25°	43946
30°	39032
35°	24856
40°	13876
45°	11617
50°	10492
55°	9887
60°	9017
65°	8136
70°	7186
75°	6374
80°	5665
85°	5130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	7.5
10°-20°	419.8	19.6
20°-30°	585.7	27.3
30°-40°	421.4	19.7
40°-50°	208.8	9.7
50°-60°	163.4	7.6
60°-70°	110.6	5.2
70°-80°	57.5	2.7
80°-90°	16.6	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°	1166.1	54.4
0°-40°	1587.5	74.0
0°-60°	1959.8	91.4
0°-90°	2144.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1778	
5°	1723	161
15°	1488	420
25°	1292	586
35°	660	421
45°	266	209
55°	184	163
65°	112	111
75°	54	57
85°	14	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1778.1
2.5°	1762.2
5°	1723.1
7.5°	1668.0
10°	1602.9
12.5°	1542.2
15°	1488.5
17.5°	1437.9
20°	1393.0
22.5°	1348.1
25°	1291.6
27.5°	1210.5
30°	1096.2
32.5°	916.5
35°	660.3
37.5°	450.3
40°	344.7
42.5°	296.8
45°	266.4
47.5°	240.4
50°	218.7
52.5°	199.9
55°	183.9
57.5°	165.1
60°	146.2
62.5°	127.4
65°	111.5
67.5°	95.6
70°	79.7
72.5°	66.7
75°	53.5
77.5°	42.0
80°	31.9
82.5°	23.2
85°	14.5
87.5°	7.2
90°	0.0



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— 0°-180°







(END OF REPORT)