

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: P584070

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520935-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1851.1 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

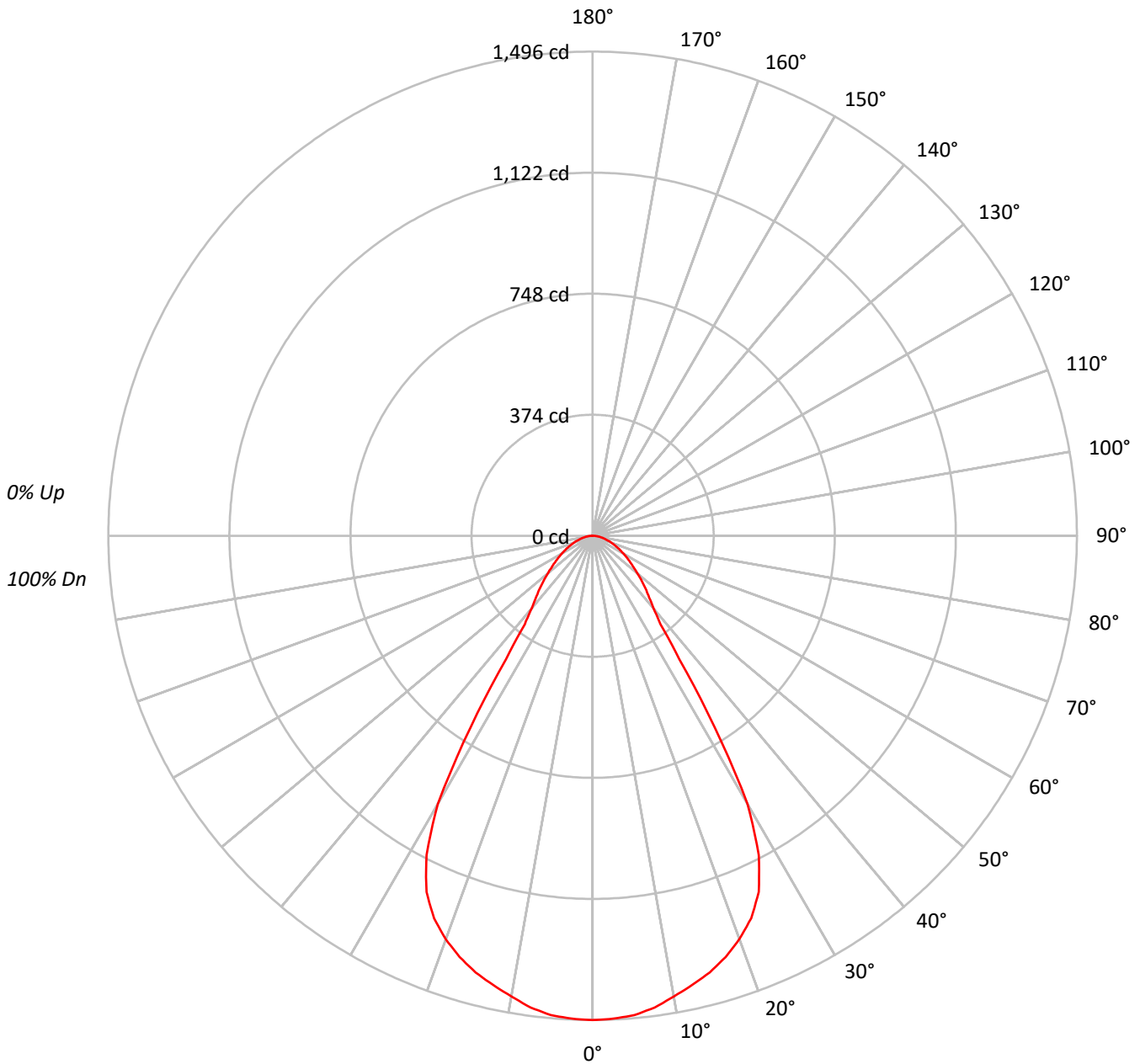
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	46140
5°	46016
10°	45249
15°	44588
20°	43520
25°	41312
30°	34072
35°	17546
40°	11746
45°	10074
50°	8693
55°	7580
60°	6735
65°	6056
70°	5491
75°	4944
80°	4422
85°	4387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	7.6
10°-20°	393.0	21.2
20°-30°	544.5	29.4
30°-40°	327.0	17.7
40°-50°	179.0	9.7
50°-60°	127.2	6.9
60°-70°	82.6	4.5
70°-80°	44.1	2.4
80°-90°	13.2	0.7
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°	1078.0	58.2
0°-40°	1405.0	75.9
0°-60°	1711.2	92.4
0°-90°	1851.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1851.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1496	
5°	1487	141
15°	1397	393
25°	1214	544
35°	466	327
45°	231	179
55°	141	127
65°	83	83
75°	42	44
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1496.3
2.5°	1493.5
5°	1486.6
7.5°	1469.9
10°	1445.1
12.5°	1421.6
15°	1396.7
17.5°	1364.9
20°	1326.2
22.5°	1279.2
25°	1214.2
27.5°	1111.8
30°	956.9
32.5°	701.2
35°	466.1
37.5°	344.3
40°	291.8
42.5°	258.6
45°	231.0
47.5°	204.6
50°	181.2
52.5°	159.0
55°	141.0
57.5°	124.5
60°	109.2
62.5°	95.4
65°	83.0
67.5°	70.6
70°	60.9
72.5°	49.8
75°	41.5
77.5°	33.2
80°	24.9
82.5°	18.0
85°	12.4
87.5°	5.6
90°	0.0



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— 0°-180°







(END OF REPORT)