

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: P583978

Luminaire Tested: **HC820D010-HM80520827-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520827-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2316.2 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

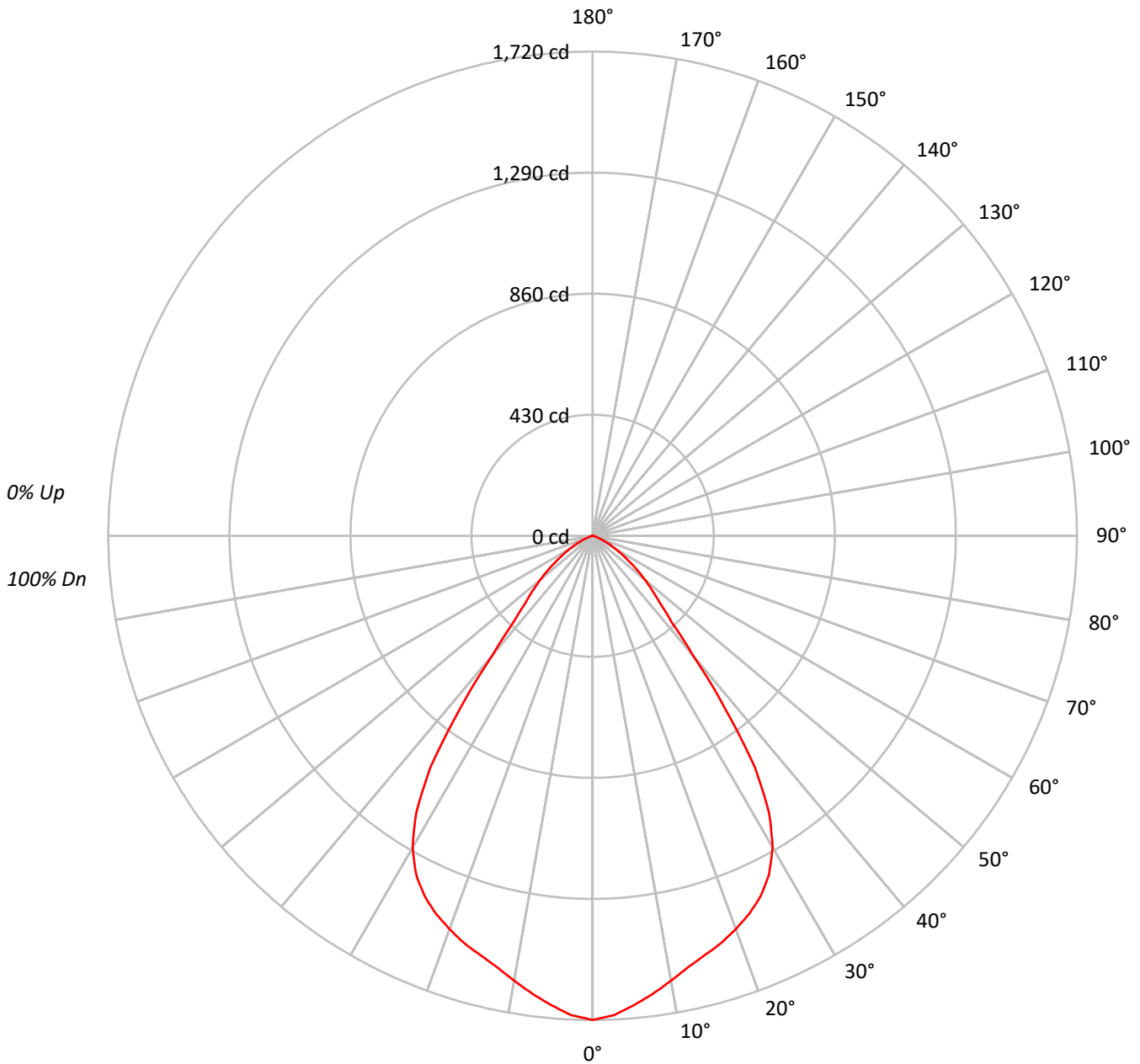
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53026
5°	51830
10°	50243
15°	49224
20°	48783
25°	48056
30°	45523
35°	37821
40°	22273
45°	14731
50°	11595
55°	8532
60°	5927
65°	3612
70°	1578
75°	691
80°	533
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	6.8
10°-20°	435.9	18.8
20°-30°	645.9	27.9
30°-40°	596.8	25.8
40°-50°	275.2	11.9
50°-60°	144.7	6.2
60°-70°	51.1	2.2
70°-80°	8.1	0.3
80°-90°	0.8	0.0
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°	1239.5	53.5
0°-40°	1836.3	79.3
0°-60°	2256.2	97.4
0°-90°	2316.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2316.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1720	
5°	1674	158
15°	1542	436
25°	1412	646
35°	1005	597
45°	338	275
55°	159	145
65°	50	51
75°	6	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1719.6
2.5°	1705.0
5°	1674.4
7.5°	1641.0
10°	1604.6
12.5°	1569.6
15°	1541.9
17.5°	1517.2
20°	1486.6
22.5°	1453.2
25°	1412.4
27.5°	1357.1
30°	1278.5
32.5°	1166.3
35°	1004.7
37.5°	771.7
40°	553.3
42.5°	415.0
45°	337.8
47.5°	286.9
50°	241.7
52.5°	198.0
55°	158.7
57.5°	125.2
60°	96.1
62.5°	72.8
65°	49.5
67.5°	29.1
70°	17.5
72.5°	10.2
75°	5.8
77.5°	4.4
80°	3.0
82.5°	1.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)