

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: P593896

Luminaire Tested: **HC880D010-HM86080850-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080850-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7733.2 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

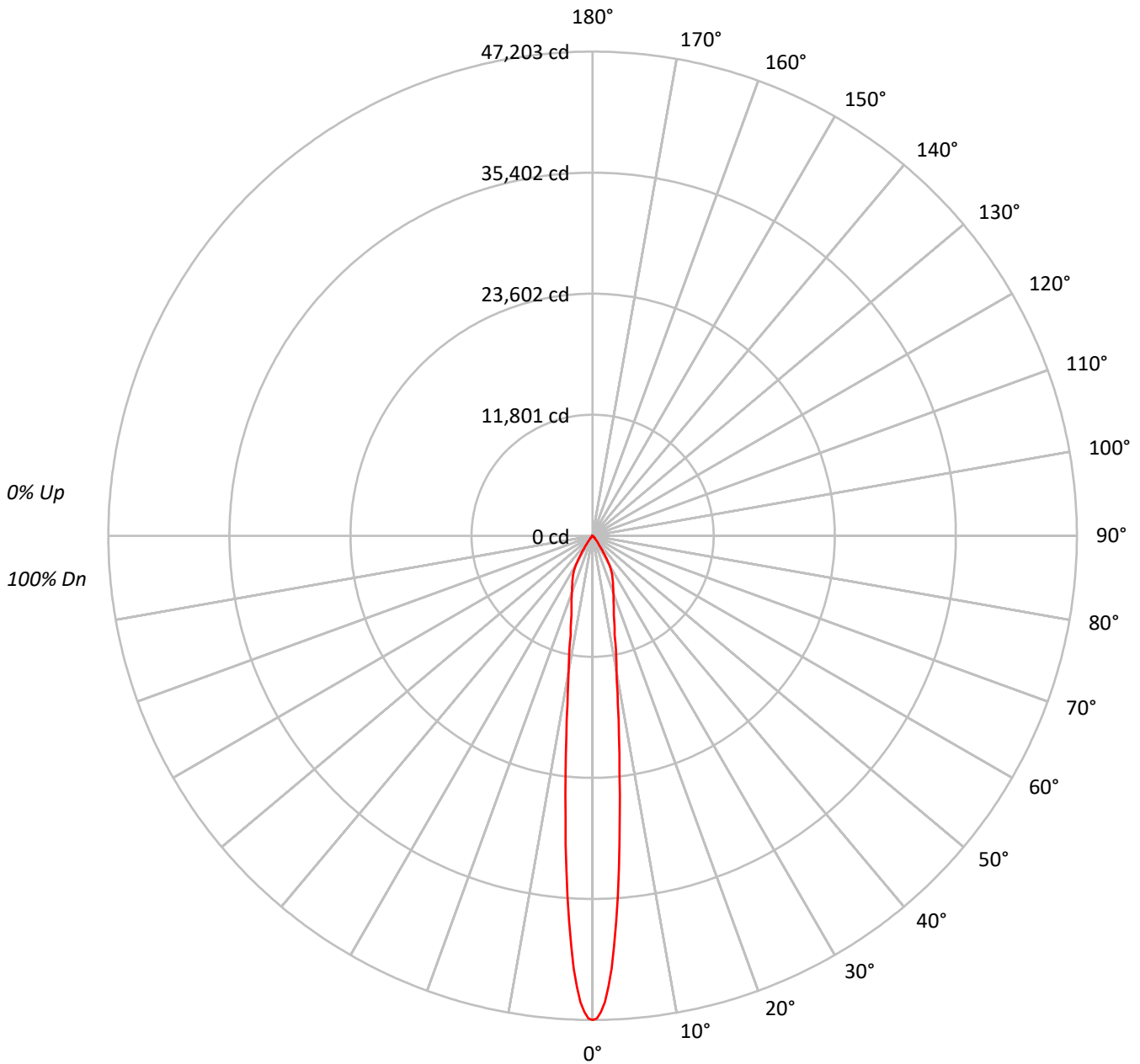
Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87			
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68			
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1455570
5°	933631
10°	421757
15°	254477
20°	193919
25°	156599
30°	114757
35°	41548
40°	15506
45°	7034
50°	2245
55°	564
60°	321
65°	379
70°	0
75°	0
80°	923
85°	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2300.4	29.7
10°-20°	2336.5	30.2
20°-30°	2091.6	27.0
30°-40°	842.5	10.9
40°-50°	138.1	1.8
50°-60°	12.6	0.2
60°-70°	4.5	0.1
70°-80°	3.4	0.0
80°-90°	5.0	0.1
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°	6728.5	87.0
0°-40°	7571.0	97.9
0°-60°	7721.7	99.9
0°-90°	7734.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7733.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	47203	
5°	30162	###
15°	7971	2337
25°	4603	2092
35°	1104	842
45°	161	138
55°	10	13
65°	5	4
75°	0	3
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	47203.1
0.5°	47057.2
1°	46448.0
1.5°	45469.3
2°	43985.3
2.5°	42230.7
3°	40033.5
3.5°	37622.8
4°	35238.3
4.5°	32567.3
5°	30161.8
5.5°	27542.9
6°	25418.6
6.5°	23205.8
7°	21466.8
7.5°	19628.8
8°	18150.2
8.5°	16666.3
9°	15552.1
9.5°	14323.3
10°	13469.5
12.5°	9934.2
15°	7971.3
17.5°	6810.2
20°	5909.4
22.5°	5190.9
25°	4602.6
27.5°	4014.3
30°	3222.9
32.5°	2072.2
35°	1103.7
37.5°	609.1
40°	385.2
42.5°	255.2
45°	161.3
47.5°	98.9
50°	46.8
52.5°	15.6
55°	10.5
57.5°	5.2
60°	5.2
62.5°	5.2
65°	5.2



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	5.2
80°	5.2
82.5°	5.2
85°	5.2
87.5°	5.2
90°	0.0



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— 0°-180°







67.5°		5.2
70°		0.0



(END OF REPORT)