

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: P593522

Luminaire Tested: **HC810D010-HM80520850-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593522
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: HC810D010-HM80520850-81NDC
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: 1285.4 lumens
Efficiency: N/A
Efficacy: 129.8 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

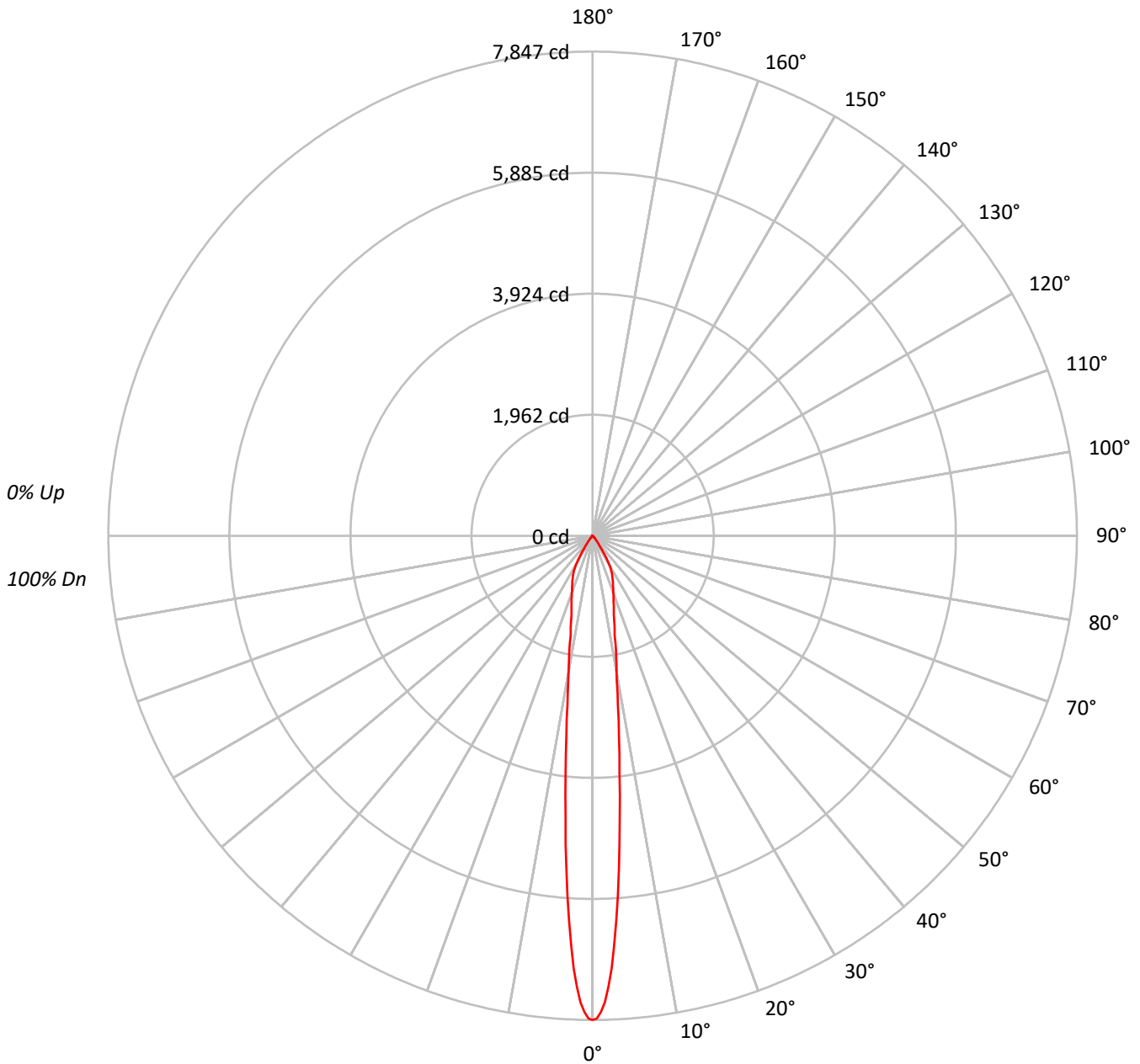
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	241973
5°	155204
10°	70114
15°	42303
20°	32238
25°	26035
30°	19075
35°	6908
40°	2580
45°	1169
50°	374
55°	91
60°	49
65°	58
70°	0
75°	0
80°	142
85°	283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.4	29.8
10°-20°	388.4	30.2
20°-30°	347.7	27.1
30°-40°	140.1	10.9
40°-50°	23.0	1.8
50°-60°	2.1	0.2
60°-70°	0.7	0.1
70°-80°	0.5	0.0
80°-90°	0.8	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°	1118.6	87.0
0°-40°	1258.6	97.9
0°-60°	1283.6	99.9
0°-90°	1285.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1285.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7847	
5°	5014	382
15°	1325	388
25°	765	348
35°	184	140
45°	27	23
55°	2	2
65°	1	1
75°	0	1
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7847.0
0.5°	7822.7
1°	7721.5
1.5°	7558.8
2°	7312.1
2.5°	7020.4
3°	6655.1
3.5°	6254.4
4°	5857.9
4.5°	5413.9
5°	5014.0
5.5°	4578.7
6°	4225.5
6.5°	3857.7
7°	3568.6
7.5°	3263.1
8°	3017.3
8.5°	2770.6
9°	2585.4
9.5°	2381.0
10°	2239.2
12.5°	1651.4
15°	1325.1
17.5°	1132.2
20°	982.4
22.5°	862.9
25°	765.2
27.5°	667.4
30°	535.7
32.5°	344.5
35°	183.5
37.5°	101.2
40°	64.1
42.5°	42.4
45°	26.8
47.5°	16.5
50°	7.8
52.5°	2.6
55°	1.7
57.5°	0.8
60°	0.8
62.5°	0.8
65°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.8
87.5°	0.8
90°	0.0



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— 0°-180°







67.5°		0.8
70°		0.0



(END OF REPORT)