

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: P583698

Luminaire Tested: **HC810D010-HM80520827-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583698
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-HM80520827-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1156.3 lumens
Efficiency: N/A
Efficacy: 116.8 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

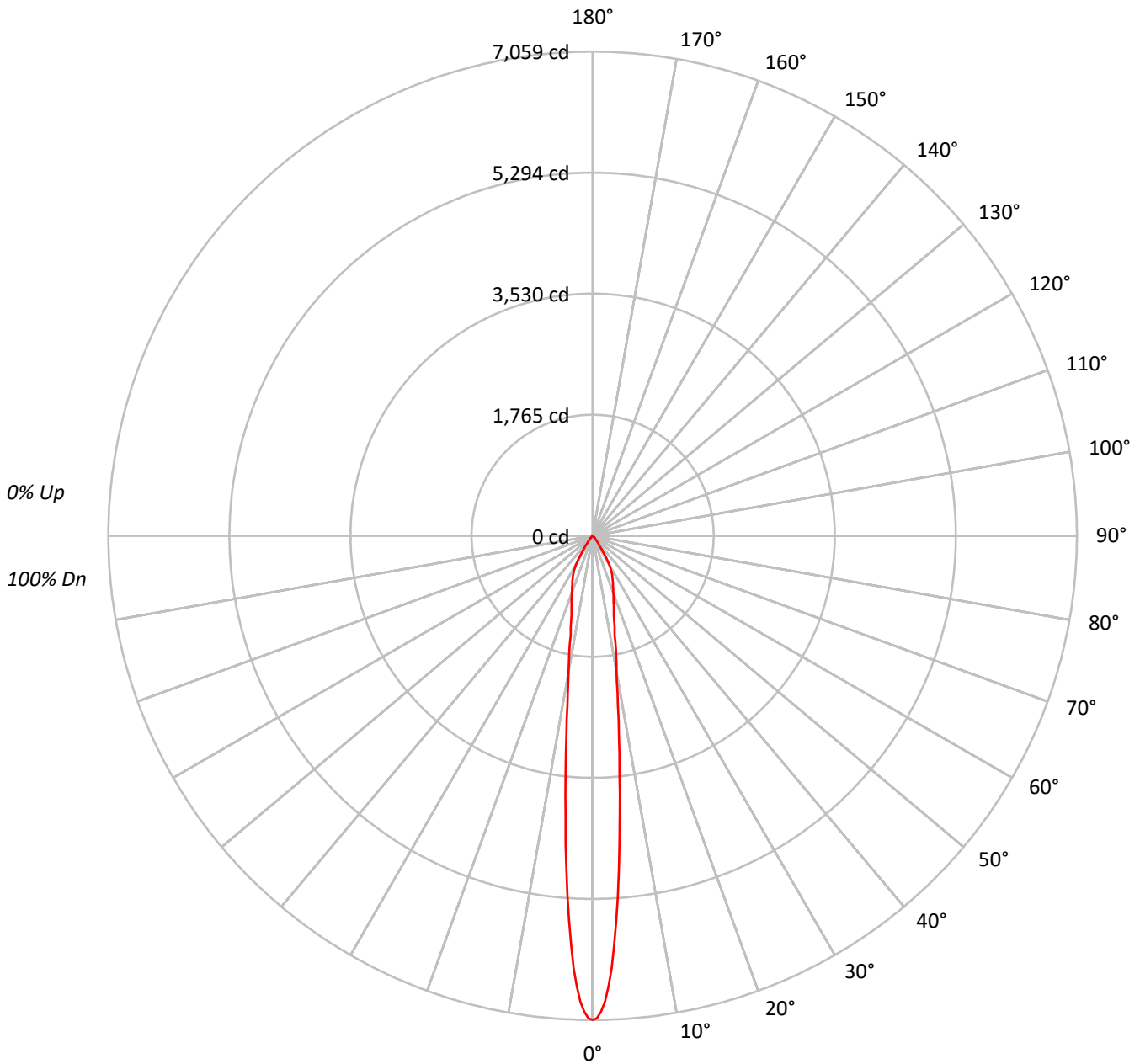
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96			96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87			87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76			76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68			68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66			66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	217670
5°	139618
10°	63069
15°	38054
20°	28999
25°	23419
30°	17162
35°	6211
40°	2319
45°	1055
50°	336
55°	86
60°	43
65°	51
70°	0
75°	0
80°	124
85°	248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.0	29.8
10°-20°	349.4	30.2
20°-30°	312.8	27.1
30°-40°	126.0	10.9
40°-50°	20.7	1.8
50°-60°	1.9	0.2
60°-70°	0.6	0.1
70°-80°	0.5	0.0
80°-90°	0.7	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°	1006.2	87.0
0°-40°	1132.2	97.9
0°-60°	1154.7	99.9
0°-90°	1156.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7059	
5°	4510	344
15°	1192	349
25°	688	313
35°	165	126
45°	24	21
55°	2	2
65°	1	1
75°	0	0
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7058.9
0.5°	7037.0
1°	6945.9
1.5°	6799.6
2°	6577.7
2.5°	6315.3
3°	5986.7
3.5°	5626.2
4°	5269.6
4.5°	4870.1
5°	4510.5
5.5°	4118.8
6°	3801.2
6.5°	3470.3
7°	3210.2
7.5°	2935.3
8°	2714.2
8.5°	2492.3
9°	2325.7
9.5°	2142.0
10°	2014.2
12.5°	1485.6
15°	1192.0
17.5°	1018.5
20°	883.7
22.5°	776.3
25°	688.3
27.5°	600.3
30°	482.0
32.5°	309.9
35°	165.0
37.5°	91.1
40°	57.6
42.5°	38.1
45°	24.2
47.5°	14.8
50°	7.0
52.5°	2.3
55°	1.6
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.7
87.5°	0.7
90°	0.0



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— 0°-180°







67.5°		0.7
70°		0.0



(END OF REPORT)