

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: P583817

Luminaire Tested: **HC810D010-HM80520940-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583817
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-HM80520940-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1130.6 lumens
Efficiency: N/A
Efficacy: 114.2 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

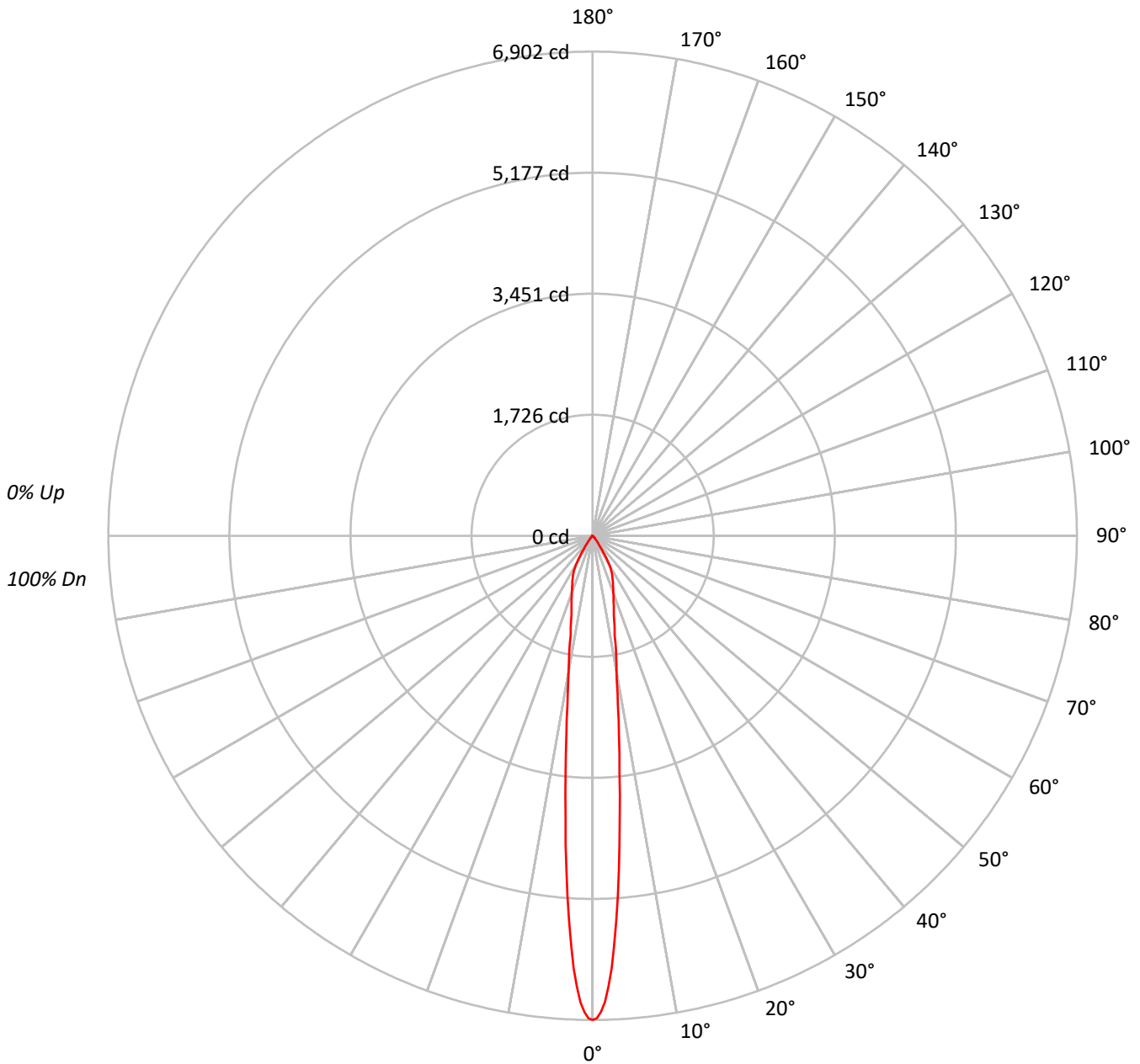
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583817

CATALOG NUMBER: HC810D010-HM80520940-81NDC

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	212832
5°	136517
10°	61669
15°	37211
20°	28356
25°	22898
30°	16781
35°	6076
40°	2270
45°	1029
50°	331
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°	336.4	29.7
10°-20°	341.6	30.2
20°-30°	305.8	27.0
30°-40°	123.2	10.9
40°-50°	20.2	1.8
50°-60°	1.8	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°	983.8	87.0
0°-40°	1107.1	97.9
0°-60°	1129.1	99.9
0°-90°	1130.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1130.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6902	
5°	4410	336
15°	1166	342
25°	673	306
35°	161	123
45°	24	20
55°	2	2
65°	1	1
75°	0	0
85°	1	1
90°	0	



TEST NUMBER: P583817

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CANDELA DISTRIBUTION (FULL):

	0°
0°	6902.0
0.5°	6880.6
1°	6791.5
1.5°	6648.5
2°	6431.5
2.5°	6174.9
3°	5853.6
3.5°	5501.2
4°	5152.5
4.5°	4762.0
5°	4410.3
5.5°	4027.3
6°	3716.7
6.5°	3393.1
7°	3138.9
7.5°	2870.1
8°	2653.9
8.5°	2436.9
9°	2274.1
9.5°	2094.4
10°	1969.5
12.5°	1452.6
15°	1165.6
17.5°	995.7
20°	864.1
22.5°	759.1
25°	673.0
27.5°	586.9
30°	471.3
32.5°	303.0
35°	161.4
37.5°	89.1
40°	56.4
42.5°	37.3
45°	23.6
47.5°	14.4
50°	6.9
52.5°	2.3
55°	1.6
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.7



TEST NUMBER: P583817

CATALOG NUMBER: HC810D010-HM80520940-81NDC

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)