

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: P585310

Luminaire Tested: **HC880D010-HM86080940-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585310  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC880D010-HM86080940-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6162.1 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

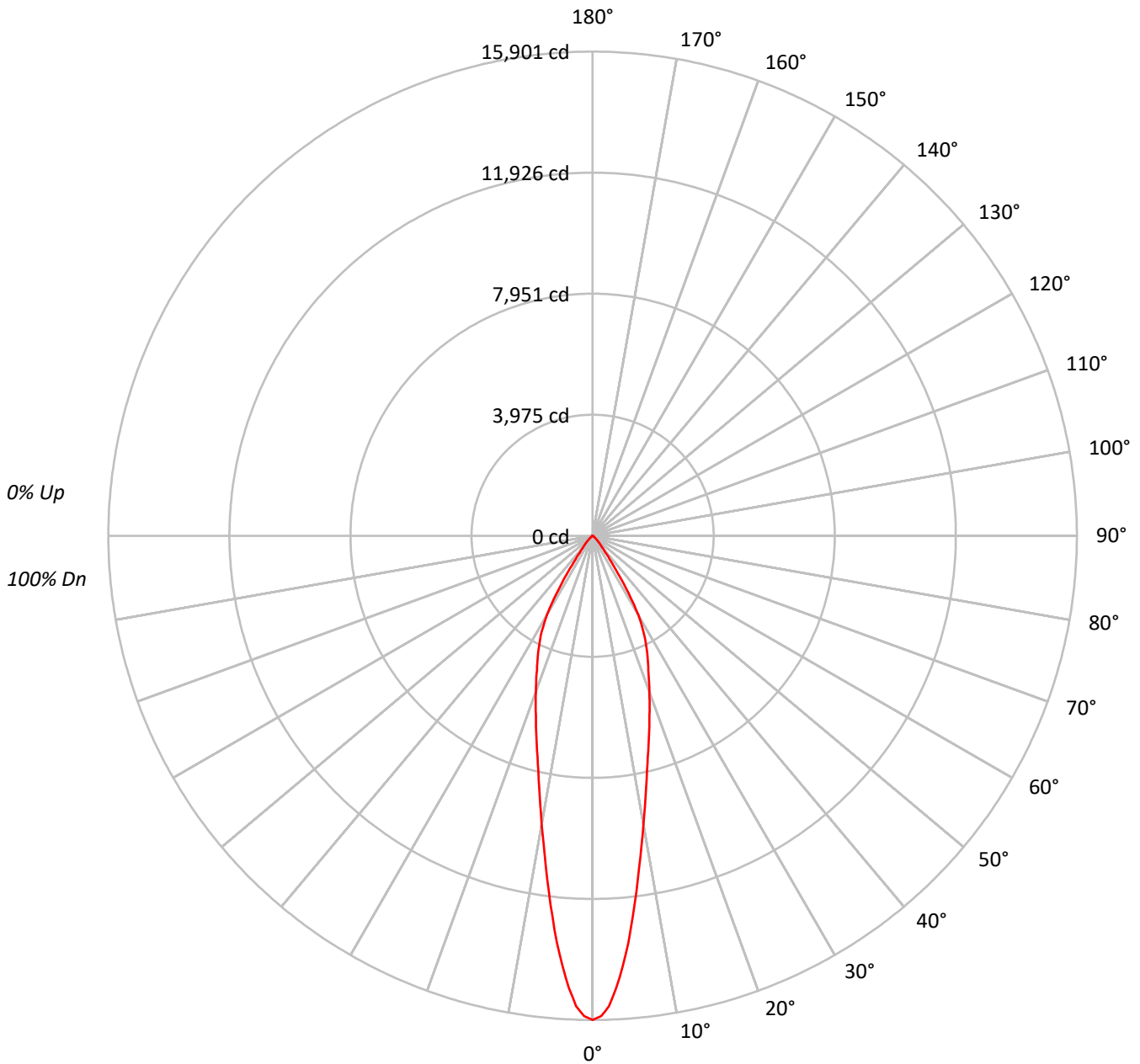
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95			95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84			84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80			80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75			75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72			72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68			68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65			65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62			62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59			59

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	490337
5°	415420
10°	301406
15°	226345
20°	178591
25°	144055
30°	106752
35°	43249
40°	18239
45°	9777
50°	4394
55°	2210
60°	1406
65°	1000
70°	829
75°	536
80°	799
85°	1592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1152.3	18.7
10°-20°	1991.4	32.3
20°-30°	1925.3	31.2
30°-40°	845.6	13.7
40°-50°	182.8	3.0
50°-60°	41.0	0.7
60°-70°	14.1	0.2
70°-80°	5.4	0.1
80°-90°	4.3	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°	5069.0	82.3
0°-40°	5914.6	96.0
0°-60°	6138.4	99.6
0°-90°	6162.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6162.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15901	
5°	13420	###
15°	7090	1991
25°	4234	1925
35°	1149	846
45°	224	183
55°	41	41
65°	14	14
75°	4	5
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	15901.3
1°	15782.3
2°	15457.4
3°	14871.4
4°	14171.1
5°	13420.5
6°	12601.1
7°	11777.2
8°	11003.7
9°	10285.1
10°	9625.9
11°	9003.5
12°	8445.0
13°	7936.9
14°	7488.3
15°	7090.1
17.5°	6197.5
20°	5442.3
22.5°	4778.6
25°	4233.9
27.5°	3680.1
30°	2998.1
32.5°	2036.9
35°	1148.9
37.5°	677.4
40°	453.1
42.5°	320.4
45°	224.2
47.5°	146.5
50°	91.6
52.5°	54.9
55°	41.1
57.5°	32.0
60°	22.8
62.5°	18.3
65°	13.7
67.5°	9.2
70°	9.2
72.5°	4.5
75°	4.5
77.5°	4.5
80°	4.5
82.5°	4.5



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°	4.5
87.5°	4.5



(END OF REPORT)