

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: P585292

Luminaire Tested: **HC880D010-HM86080935-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585292  
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-HM86080935-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6552.3 lumens  
Efficiency: N/A  
Efficacy: 93.6 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

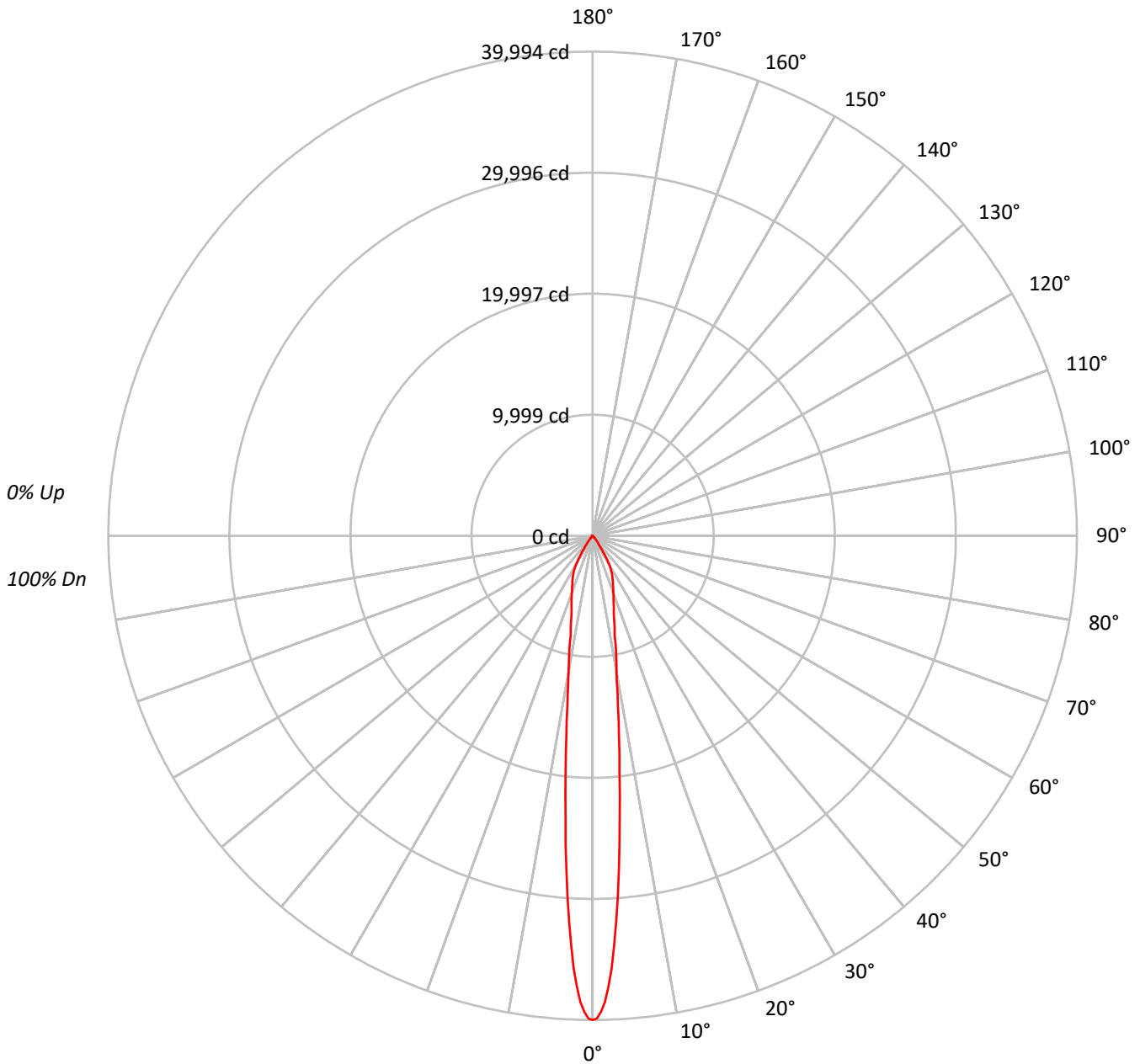
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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°	1233274
5°	791048
10°	357345
15°	215612
20°	164306
25°	132684
30°	97231
35°	35209
40°	13143
45°	5961
50°	1905
55°	473
60°	271
65°	321
70°	0
75°	0
80°	781
85°	1557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1949.1	29.7
10°-20°	1979.7	30.2
20°-30°	1772.2	27.0
30°-40°	713.9	10.9
40°-50°	117.1	1.8
50°-60°	10.6	0.2
60°-70°	3.8	0.1
70°-80°	2.9	0.0
80°-90°	4.2	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°	5701.0	87.0
0°-40°	6414.8	97.9
0°-60°	6542.5	99.9
0°-90°	6553.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6552.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	39994	
5°	25556	###
15°	6754	1980
25°	3900	1772
35°	935	714
45°	137	117
55°	9	11
65°	4	4
75°	0	3
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	39994.2
0.5°	39870.6
1°	39354.5
1.5°	38525.1
2°	37267.9
2.5°	35781.2
3°	33919.6
3.5°	31877.1
4°	29856.6
4.5°	27593.6
5°	25555.5
5.5°	23336.5
6°	21536.7
6.5°	19661.8
7°	18188.4
7.5°	16631.1
8°	15378.3
8.5°	14121.0
9°	13177.0
9.5°	12135.9
10°	11412.4
12.5°	8417.0
15°	6753.9
17.5°	5770.2
20°	5007.0
22.5°	4398.2
25°	3899.7
27.5°	3401.3
30°	2730.7
32.5°	1755.8
35°	935.3
37.5°	516.1
40°	326.5
42.5°	216.2
45°	136.7
47.5°	83.8
50°	39.7
52.5°	13.2
55°	8.8
57.5°	4.4
60°	4.4
62.5°	4.4
65°	4.4



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**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	4.4
80°	4.4
82.5°	4.4
85°	4.4
87.5°	4.4
90°	0.0



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— 0°-180°







67.5°		4.4
70°		0.0



(END OF REPORT)