

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: P593908

Luminaire Tested: **HC880D010-HM86080950-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC880D010-HM86080950-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7495.9 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

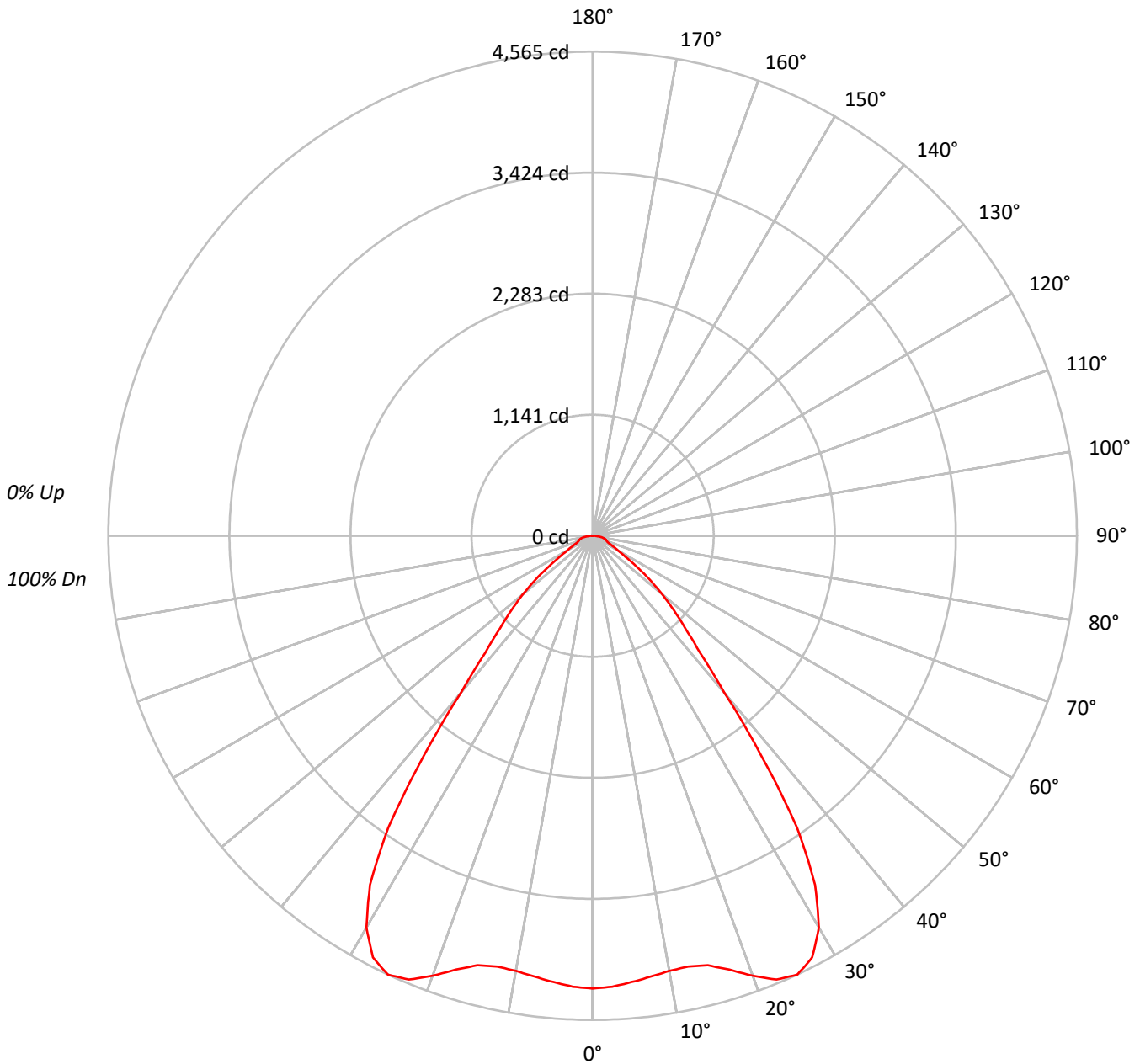
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

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

	0°
0°	131643
5°	130741
10°	130399
15°	133819
20°	144873
25°	155320
30°	151848
35°	126443
40°	77678
45°	53792
50°	41046
55°	26918
60°	16843
65°	12623
70°	12721
75°	14643
80°	16177
85°	14506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.3	5.4
10°-20°	1203.3	16.1
20°-30°	2071.5	27.6
30°-40°	2007.0	26.8
40°-50°	988.6	13.2
50°-60°	466.5	6.2
60°-70°	183.8	2.5
70°-80°	126.8	1.7
80°-90°	47.1	0.6
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°	3676.2	49.0
0°-40°	5683.1	75.8
0°-60°	7138.2	95.2
0°-90°	7495.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7495.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4269	
5°	4224	401
15°	4192	1203
25°	4565	2072
35°	3359	2007
45°	1234	989
55°	501	466
65°	173	184
75°	123	127
85°	41	47
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4269.1
2.5°	4255.5
5°	4223.7
7.5°	4191.8
10°	4164.5
12.5°	4160.0
15°	4191.8
17.5°	4287.4
20°	4414.8
22.5°	4528.5
25°	4565.0
27.5°	4483.1
30°	4264.6
32.5°	3905.0
35°	3358.9
37.5°	2608.0
40°	1929.7
42.5°	1497.4
45°	1233.5
47.5°	1037.8
50°	855.6
52.5°	673.6
55°	500.7
57.5°	364.1
60°	273.1
62.5°	213.9
65°	173.0
67.5°	150.2
70°	141.1
72.5°	132.0
75°	122.9
77.5°	109.3
80°	91.1
82.5°	68.2
85°	41.0
87.5°	18.2
90°	0.0



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— 0°-180°







(END OF REPORT)