

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: P585226

Luminaire Tested: **HC880D010-HM86080835-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC880D010-HM86080835-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6658.5 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

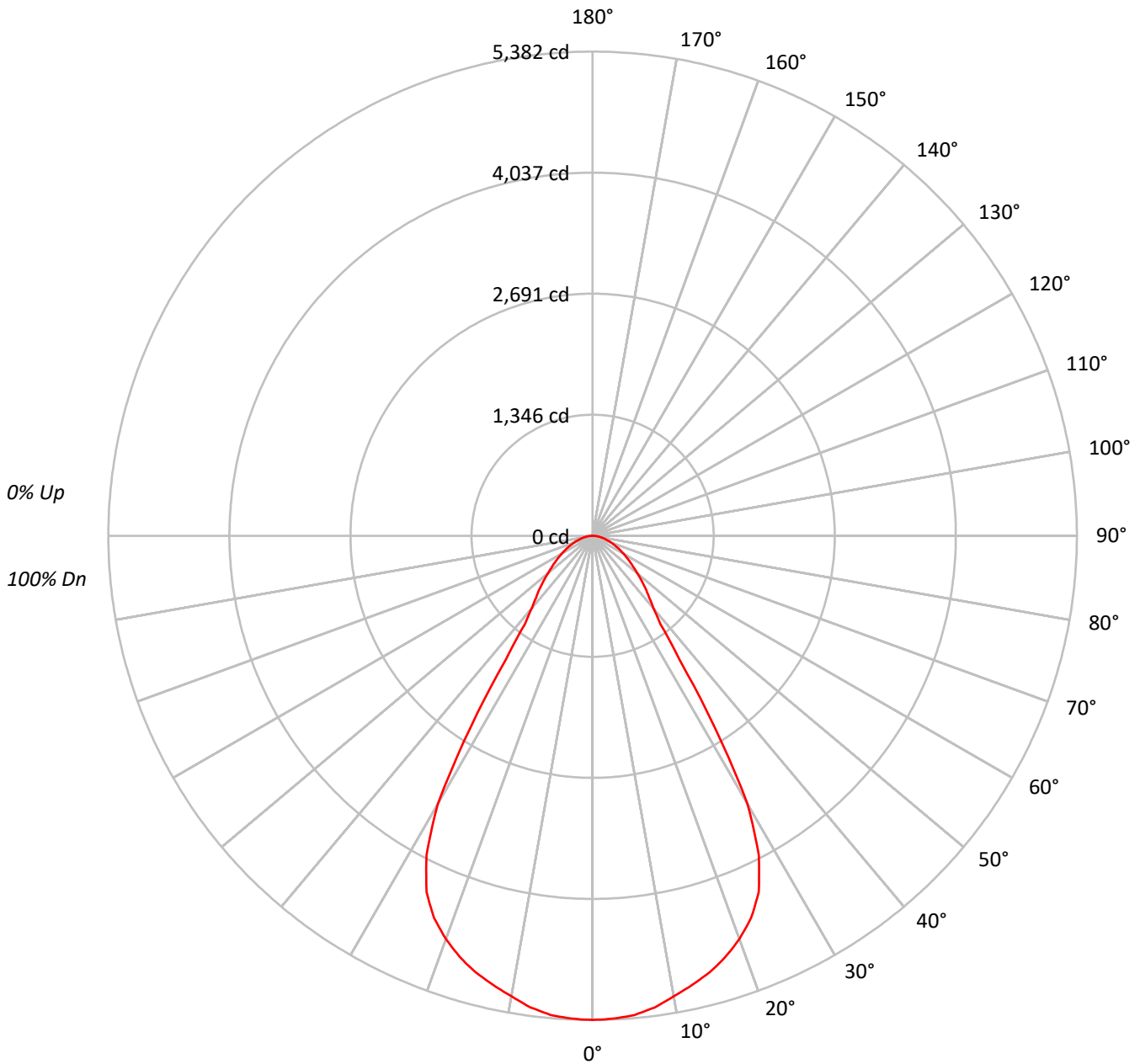
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			73
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42

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

	0°
0°	165964
5°	165521
10°	162763
15°	160387
20°	156539
25°	148597
30°	122565
35°	63107
40°	42247
45°	36230
50°	31259
55°	27273
60°	24237
65°	21773
70°	19736
75°	17776
80°	15893
85°	15851



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	505.6	7.6
10°-20°	1413.5	21.2
20°-30°	1958.5	29.4
30°-40°	1176.4	17.7
40°-50°	644.0	9.7
50°-60°	457.5	6.9
60°-70°	297.0	4.5
70°-80°	158.7	2.4
80°-90°	47.4	0.7
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°	3877.6	58.2
0°-40°	5053.9	75.9
0°-60°	6155.4	92.4
0°-90°	6658.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6658.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5382	
5°	5347	506
15°	5024	1413
25°	4367	1958
35°	1676	1176
45°	831	644
55°	507	457
65°	298	297
75°	149	159
85°	45	47
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5382.1
2.5°	5372.3
5°	5347.3
7.5°	5287.6
10°	5198.1
12.5°	5113.5
15°	5024.0
17.5°	4909.6
20°	4770.3
22.5°	4601.2
25°	4367.4
27.5°	3999.3
30°	3442.2
32.5°	2522.0
35°	1676.4
37.5°	1238.6
40°	1049.5
42.5°	930.2
45°	830.8
47.5°	736.2
50°	651.6
52.5°	572.0
55°	507.3
57.5°	447.7
60°	393.0
62.5°	343.3
65°	298.4
67.5°	253.7
70°	218.9
72.5°	179.1
75°	149.2
77.5°	119.4
80°	89.5
82.5°	64.7
85°	44.8
87.5°	19.9
90°	0.0



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— 0°-180°







(END OF REPORT)