

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: P593824

Luminaire Tested: **HC855D010-HM82555850-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC855D010-HM82555850-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6012.4 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

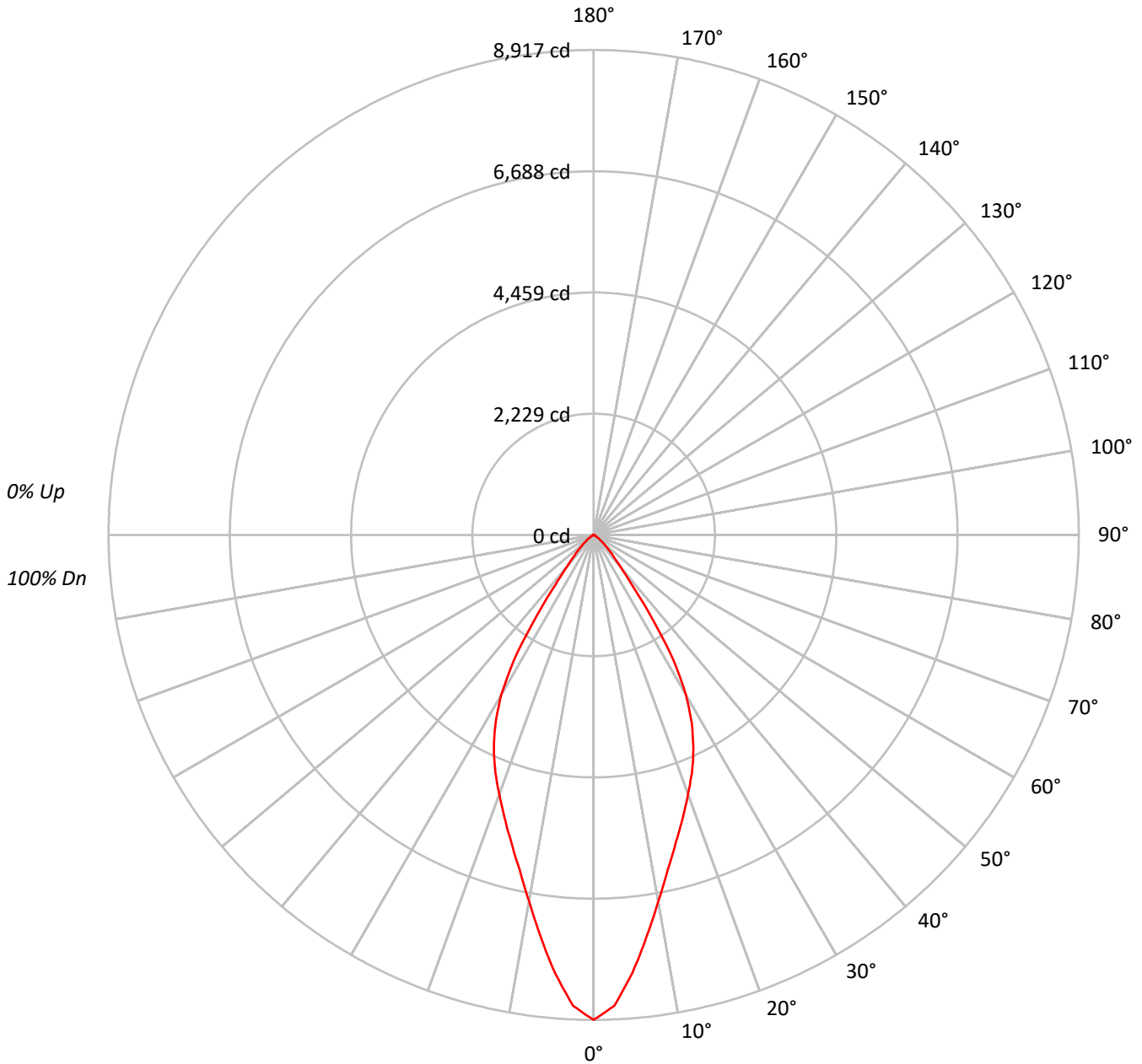
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

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

	0°
0°	274964
5°	250567
10°	214087
15°	186702
20°	166403
25°	147610
30°	120856
35°	69401
40°	30798
45°	17923
50°	10343
55°	5908
60°	3262
65°	2080
70°	1470
75°	965
80°	728
85°	1451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	732.7	12.2
10°-20°	1643.9	27.3
20°-30°	1967.8	32.7
30°-40°	1190.4	19.8
40°-50°	333.6	5.5
50°-60°	103.6	1.7
60°-70°	29.6	0.5
70°-80°	8.0	0.1
80°-90°	2.8	0.0
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°	4344.4	72.3
0°-40°	5534.8	92.1
0°-60°	5972.0	99.3
0°-90°	6012.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6012.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8917	
5°	8095	733
15°	5848	1644
25°	4338	1968
35°	1844	1190
45°	411	334
55°	110	104
65°	28	30
75°	8	8
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8916.9
2.5°	8664.6
5°	8094.8
7.5°	7451.8
10°	6837.2
12.5°	6300.0
15°	5848.3
17.5°	5449.4
20°	5070.9
22.5°	4720.9
25°	4338.4
27.5°	3907.0
30°	3394.2
32.5°	2730.9
35°	1843.6
37.5°	1147.6
40°	765.1
42.5°	549.4
45°	411.0
47.5°	301.2
50°	215.6
52.5°	150.6
55°	109.9
57.5°	73.2
60°	52.9
62.5°	36.7
65°	28.5
67.5°	20.4
70°	16.3
72.5°	8.1
75°	8.1
77.5°	4.1
80°	4.1
82.5°	4.1
85°	4.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)