

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: P584190

Luminaire Tested: **HC825D010-HM82555930-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584190  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC825D010-HM82555930-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2357.6 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

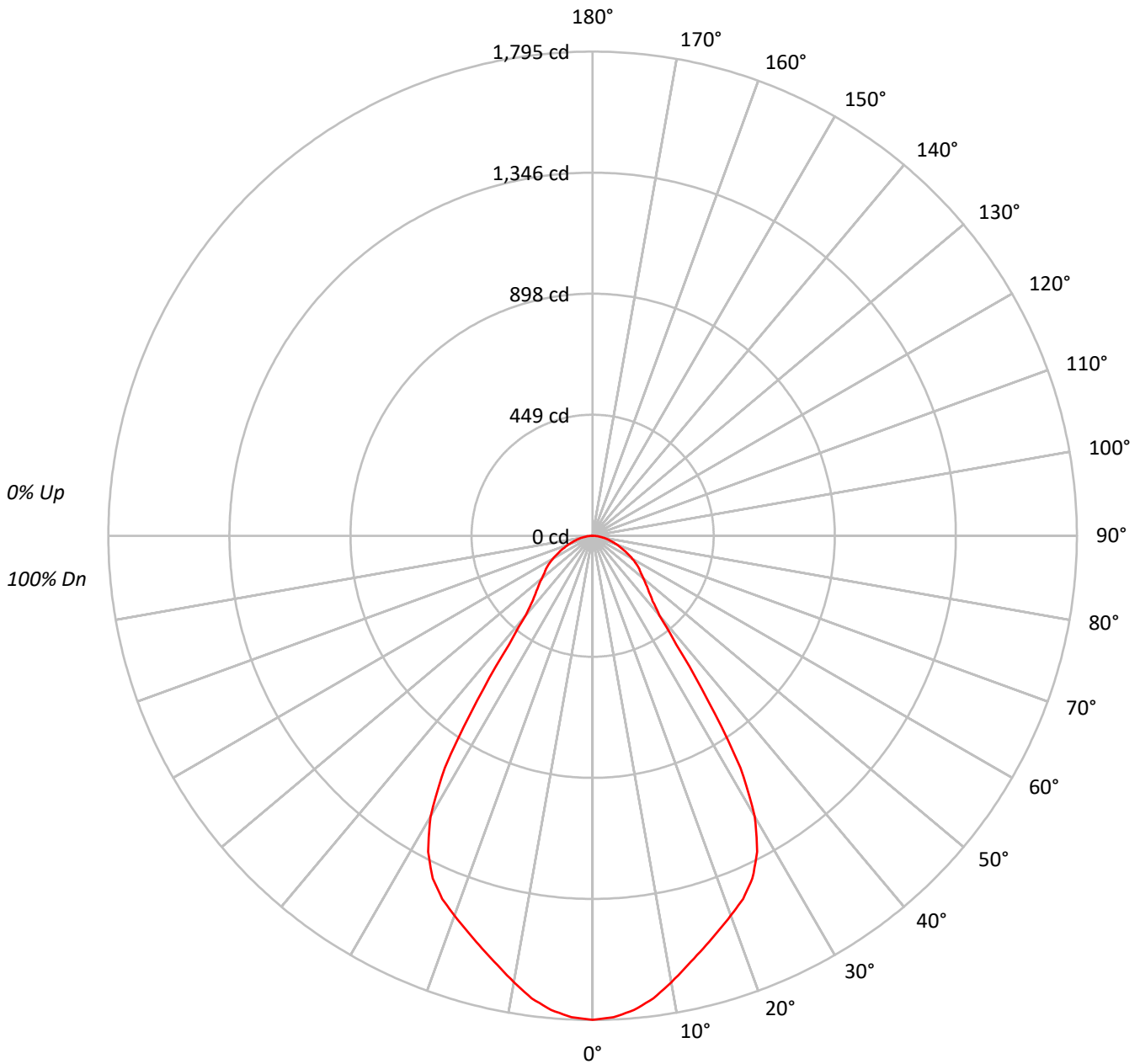
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53	53	53	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

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

	0°
0°	55339
5°	54619
10°	52620
15°	50561
20°	49164
25°	47685
30°	42789
35°	28049
40°	15506
45°	12930
50°	11792
55°	11252
60°	10460
65°	9485
70°	8574
75°	7732
80°	7032
85°	6722



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.8	7.0
10°-20°	446.8	19.0
20°-30°	635.9	27.0
30°-40°	470.6	20.0
40°-50°	233.1	9.9
50°-60°	186.0	7.9
60°-70°	129.2	5.5
70°-80°	69.6	3.0
80°-90°	20.5	0.9
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°	1248.5	53.0
0°-40°	1719.2	72.9
0°-60°	2138.3	90.7
0°-90°	2357.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1795	
5°	1764	166
15°	1584	447
25°	1402	636
35°	745	471
45°	296	233
55°	209	186
65°	130	129
75°	65	70
85°	19	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1794.6
2.5°	1786.7
5°	1764.5
7.5°	1729.7
10°	1680.5
12.5°	1629.7
15°	1583.8
17.5°	1539.4
20°	1498.2
22.5°	1456.9
25°	1401.5
27.5°	1320.6
30°	1201.7
32.5°	1019.4
35°	745.1
37.5°	508.9
40°	385.2
42.5°	329.8
45°	296.5
47.5°	269.5
50°	245.8
52.5°	225.1
55°	209.3
57.5°	190.2
60°	169.6
62.5°	149.1
65°	130.0
67.5°	111.0
70°	95.1
72.5°	79.3
75°	64.9
77.5°	52.3
80°	39.6
82.5°	28.6
85°	19.0
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)