

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: P593662

Luminaire Tested: **HC830D010-HM82555850-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593662
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: HC830D010-HM82555850-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3703.9 lumens
Efficiency: N/A
Efficacy: 132.3 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

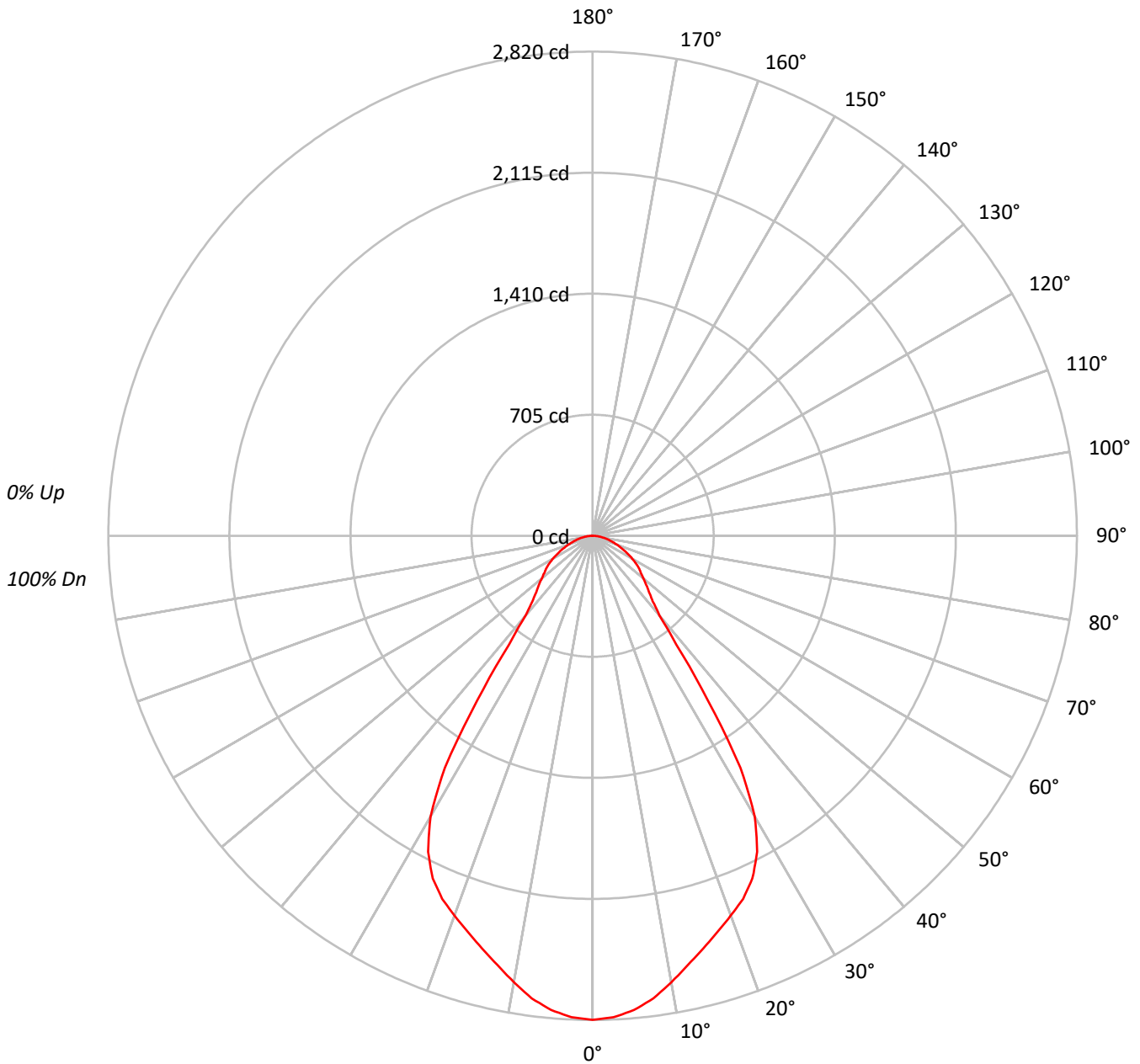
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	86943
5°	85811
10°	82670
15°	79434
20°	77237
25°	74914
30°	67225
35°	44070
40°	24362
45°	20309
50°	18522
55°	17677
60°	16436
65°	14907
70°	13479
75°	12164
80°	11063
85°	10543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	7.0
10°-20°	702.0	19.0
20°-30°	999.1	27.0
30°-40°	739.4	20.0
40°-50°	366.2	9.9
50°-60°	292.3	7.9
60°-70°	202.9	5.5
70°-80°	109.3	3.0
80°-90°	32.2	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°	1961.5	53.0
0°-40°	2701.0	72.9
0°-60°	3359.5	90.7
0°-90°	3703.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3703.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2820	
5°	2772	260
15°	2488	702
25°	2202	999
35°	1171	739
45°	466	366
55°	329	292
65°	204	203
75°	102	109
85°	30	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2819.5
2.5°	2807.0
5°	2772.2
7.5°	2717.3
10°	2640.2
12.5°	2560.5
15°	2488.2
17.5°	2418.5
20°	2353.7
22.5°	2288.9
25°	2201.8
27.5°	2074.8
30°	1888.0
32.5°	1601.6
35°	1170.7
37.5°	799.5
40°	605.2
42.5°	518.0
45°	465.7
47.5°	423.4
50°	386.1
52.5°	353.7
55°	328.8
57.5°	298.9
60°	266.5
62.5°	234.1
65°	204.3
67.5°	174.3
70°	149.5
72.5°	124.5
75°	102.1
77.5°	82.2
80°	62.3
82.5°	44.8
85°	29.8
87.5°	12.5
90°	0.0



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— 0°-180°







(END OF REPORT)