

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: P584213

Luminaire Tested: **HC825D010-HM82555935-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555935-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2448.3 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

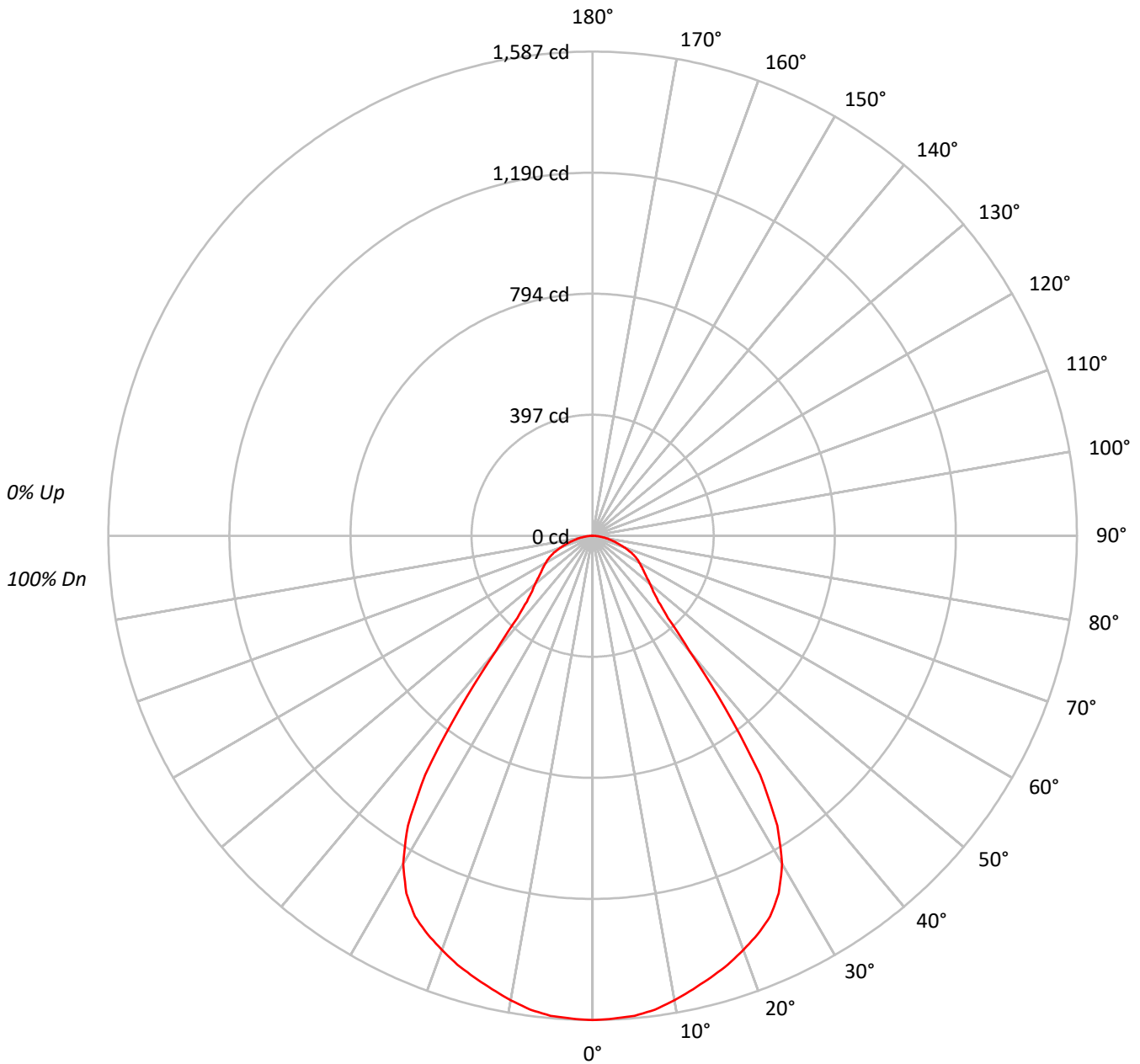
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	48946
5°	48889
10°	48405
15°	47825
20°	47385
25°	46851
30°	44206
35°	35999
40°	19885
45°	13275
50°	11777
55°	11048
60°	10910
65°	10813
70°	9773
75°	8733
80°	7636
85°	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	6.1
10°-20°	423.0	17.3
20°-30°	628.5	25.7
30°-40°	566.0	23.1
40°-50°	250.9	10.2
50°-60°	185.8	7.6
60°-70°	144.5	5.9
70°-80°	78.3	3.2
80°-90°	21.5	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°	1201.2	49.1
0°-40°	1767.3	72.2
0°-60°	2204.0	90.0
0°-90°	2448.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2448.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1587	
5°	1579	150
15°	1498	423
25°	1377	629
35°	956	566
45°	304	251
55°	206	186
65°	148	144
75°	73	78
85°	19	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1587.3
2.5°	1584.2
5°	1579.4
7.5°	1566.7
10°	1545.9
12.5°	1522.1
15°	1498.1
17.5°	1474.2
20°	1444.0
22.5°	1413.7
25°	1377.0
27.5°	1321.2
30°	1241.5
32.5°	1126.8
35°	956.3
37.5°	714.0
40°	494.0
42.5°	365.0
45°	304.4
47.5°	269.3
50°	245.5
52.5°	223.1
55°	205.5
57.5°	191.2
60°	176.9
62.5°	164.1
65°	148.2
67.5°	129.0
70°	108.4
72.5°	90.8
75°	73.3
77.5°	57.4
80°	43.0
82.5°	30.3
85°	19.2
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)