

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: P584203

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555935-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2360.7 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

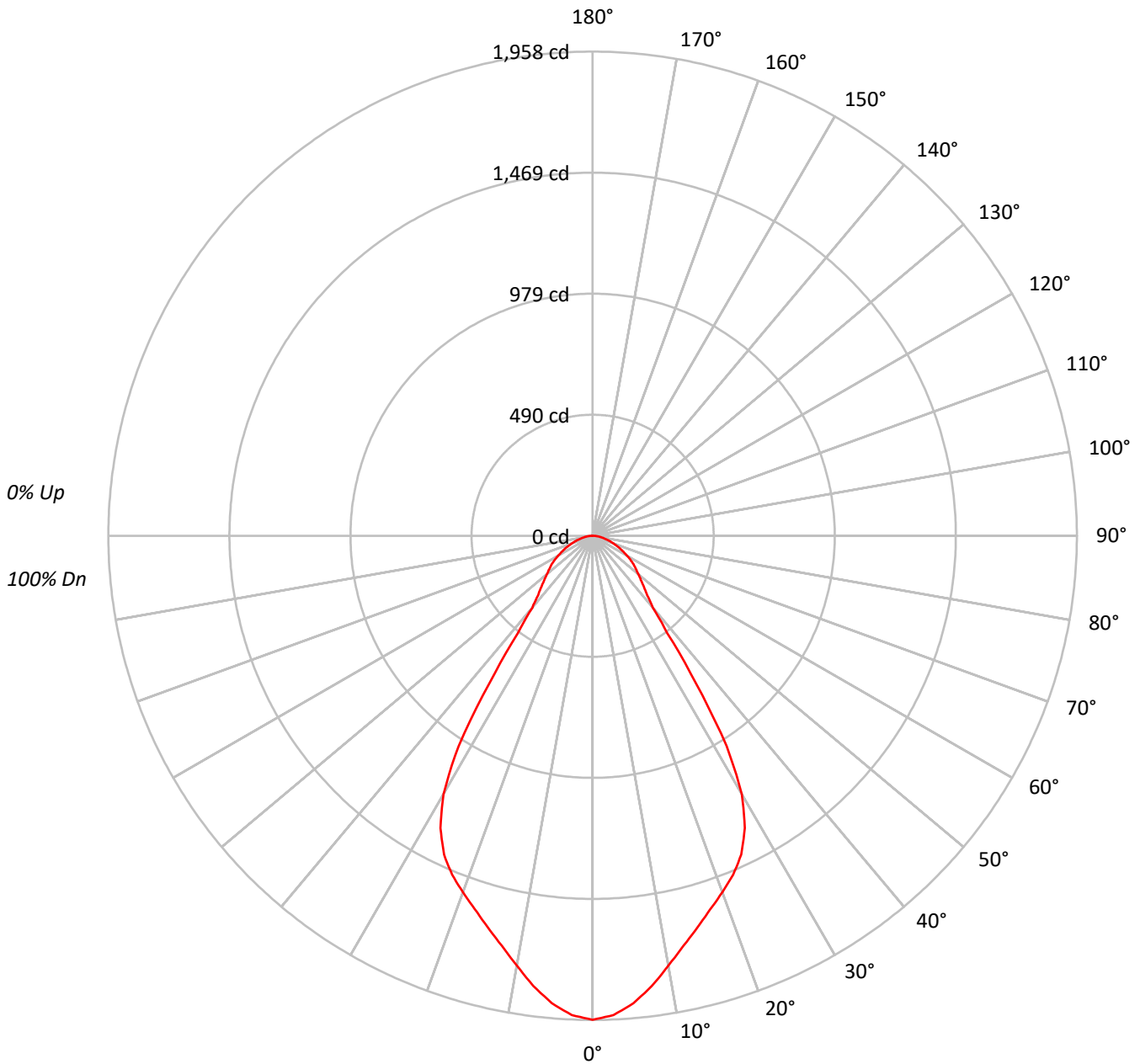
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584203

CATALOG NUMBER: HC825D010-HM82555935-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P584203

CATALOG NUMBER: HC825D010-HM82555935-81MDW

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60365
5°	58720
10°	55253
15°	52314
20°	50322
25°	48379
30°	42967
35°	27367
40°	15272
45°	12791
50°	11552
55°	10881
60°	9929
65°	8953
70°	7898
75°	7029
80°	6233
85°	5626



TEST NUMBER: P584203

CATALOG NUMBER: HC825D010-HM82555935-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	7.5
10°-20°	462.2	19.6
20°-30°	644.7	27.3
30°-40°	463.9	19.7
40°-50°	229.9	9.7
50°-60°	179.9	7.6
60°-70°	121.8	5.2
70°-80°	63.2	2.7
80°-90°	18.2	0.8
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°	1283.7	54.4
0°-40°	1747.7	74.0
0°-60°	2157.5	91.4
0°-90°	2360.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2360.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1958	
5°	1897	177
15°	1639	462
25°	1422	645
35°	727	464
45°	293	230
55°	202	180
65°	123	122
75°	59	63
85°	16	18
90°	0	



TEST NUMBER: P584203

CATALOG NUMBER: HC825D010-HM82555935-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1957.6
2.5°	1940.0
5°	1897.0
7.5°	1836.4
10°	1764.6
12.5°	1697.8
15°	1638.7
17.5°	1583.0
20°	1533.5
22.5°	1484.1
25°	1421.9
27.5°	1332.7
30°	1206.7
32.5°	1009.1
35°	727.0
37.5°	495.7
40°	379.4
42.5°	326.8
45°	293.3
47.5°	264.6
50°	240.8
52.5°	220.0
55°	202.4
57.5°	181.7
60°	161.0
62.5°	140.3
65°	122.7
67.5°	105.2
70°	87.6
72.5°	73.3
75°	59.0
77.5°	46.2
80°	35.1
82.5°	25.5
85°	15.9
87.5°	7.9
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)