

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: P583867

Luminaire Tested: **HC815D010-HM80520835-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583867
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: HC815D010-HM80520835-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1638.2 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

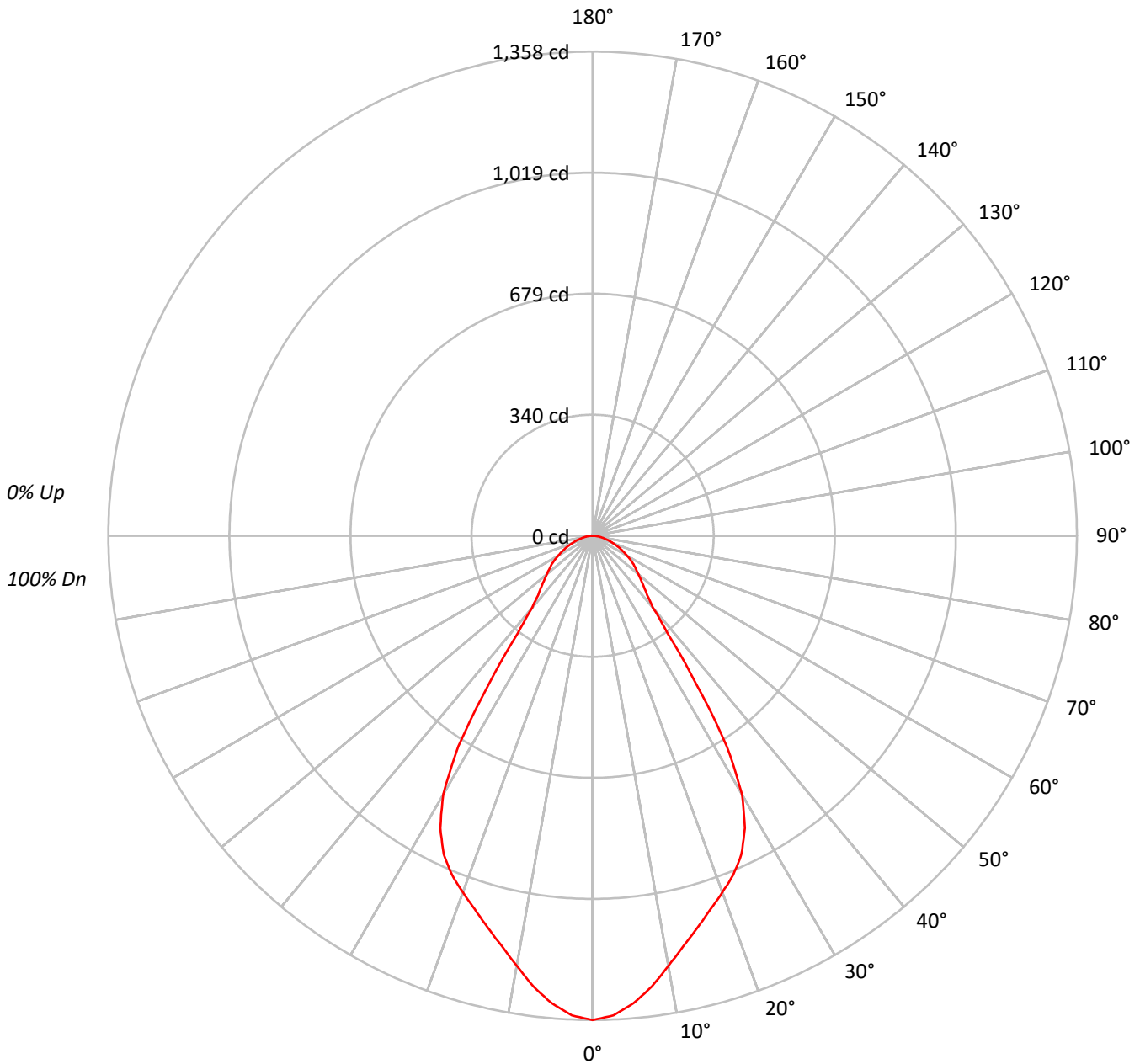
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	41888
5°	40745
10°	38342
15°	36304
20°	34919
25°	33572
30°	29817
35°	18988
40°	10599
45°	8874
50°	8011
55°	7553
60°	6889
65°	6217
70°	5491
75°	4885
80°	4315
85°	3927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	7.5
10°-20°	320.7	19.6
20°-30°	447.4	27.3
30°-40°	321.9	19.7
40°-50°	159.5	9.7
50°-60°	124.8	7.6
60°-70°	84.5	5.2
70°-80°	43.9	2.7
80°-90°	12.6	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°	890.8	54.4
0°-40°	1212.7	74.0
0°-60°	1497.1	91.4
0°-90°	1638.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1638.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1358	
5°	1316	123
15°	1137	321
25°	987	447
35°	504	322
45°	204	160
55°	140	125
65°	85	85
75°	41	44
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1358.4
2.5°	1346.2
5°	1316.3
7.5°	1274.3
10°	1224.5
12.5°	1178.0
15°	1137.2
17.5°	1098.4
20°	1064.1
22.5°	1029.8
25°	986.7
27.5°	924.7
30°	837.4
32.5°	700.2
35°	504.4
37.5°	344.0
40°	263.3
42.5°	226.8
45°	203.5
47.5°	183.6
50°	167.0
52.5°	152.7
55°	140.5
57.5°	126.0
60°	111.7
62.5°	97.4
65°	85.2
67.5°	73.0
70°	60.9
72.5°	50.9
75°	41.0
77.5°	32.1
80°	24.3
82.5°	17.7
85°	11.1
87.5°	5.5
90°	0.0



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— 0°-180°







(END OF REPORT)