

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: P583901

Luminaire Tested: **HC815D010-HM80520927-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583901
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-HM80520927-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1285.4 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

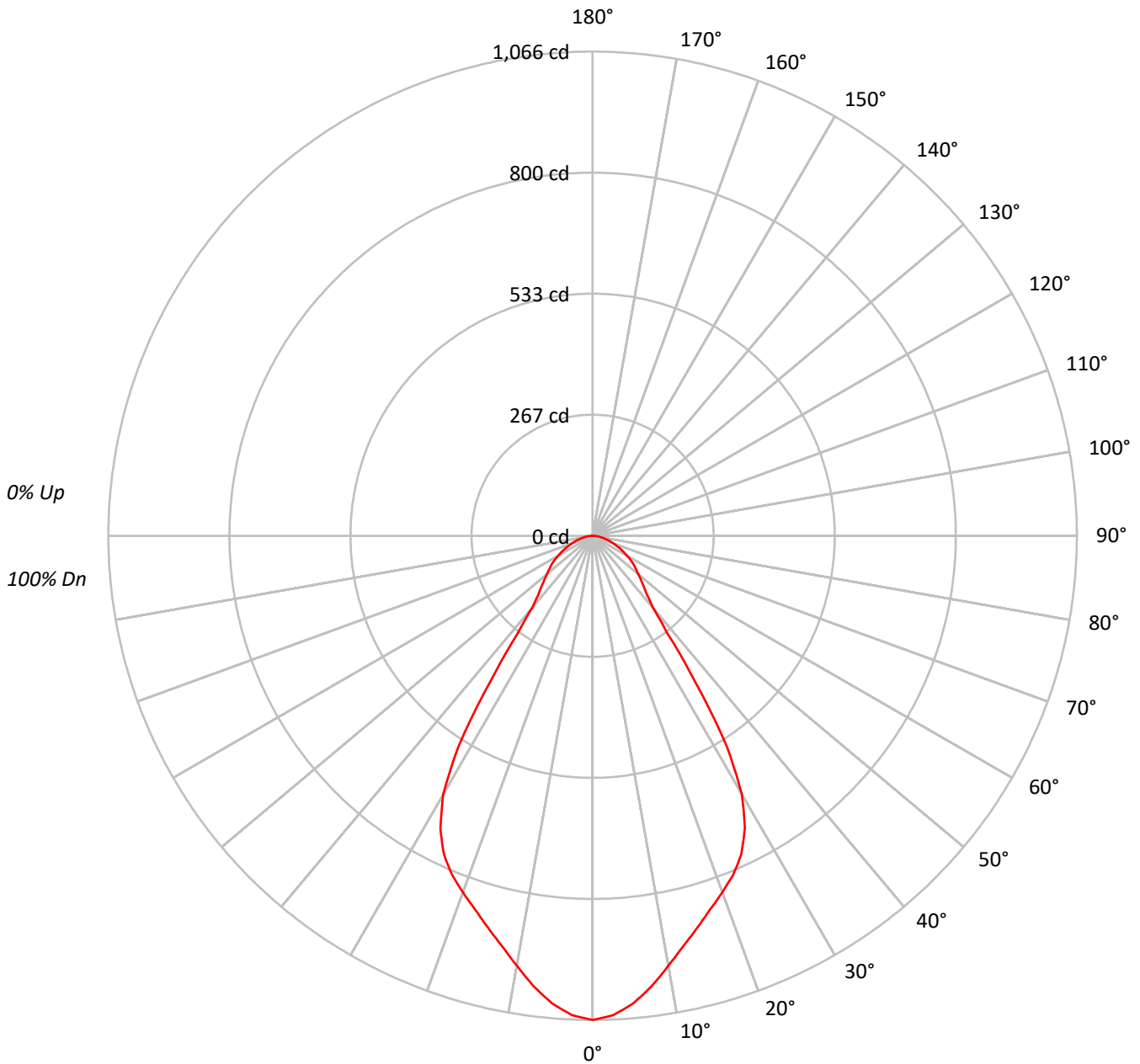
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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°	32868
5°	31972
10°	30088
15°	28486
20°	27404
25°	26341
30°	23397
35°	14900
40°	8312
45°	6964
50°	6289
55°	5930
60°	5409
65°	4881
70°	4301
75°	3836
80°	3374
85°	3078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	7.5
10°-20°	251.7	19.6
20°-30°	351.1	27.3
30°-40°	252.6	19.7
40°-50°	125.2	9.7
50°-60°	98.0	7.6
60°-70°	66.3	5.2
70°-80°	34.4	2.7
80°-90°	9.9	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°	699.0	54.4
0°-40°	951.6	74.0
0°-60°	1174.8	91.4
0°-90°	1285.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1285.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1066	
5°	1033	96
15°	892	252
25°	774	351
35°	396	253
45°	160	125
55°	110	98
65°	67	66
75°	32	34
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1065.9
2.5°	1056.3
5°	1032.9
7.5°	999.9
10°	960.9
12.5°	924.5
15°	892.3
17.5°	861.9
20°	835.1
22.5°	808.1
25°	774.2
27.5°	725.7
30°	657.1
32.5°	549.5
35°	395.8
37.5°	269.9
40°	206.5
42.5°	178.0
45°	159.7
47.5°	144.1
50°	131.1
52.5°	119.8
55°	110.3
57.5°	98.9
60°	87.7
62.5°	76.4
65°	66.9
67.5°	57.2
70°	47.7
72.5°	39.9
75°	32.2
77.5°	25.2
80°	19.0
82.5°	13.9
85°	8.7
87.5°	4.3
90°	0.0



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— 0°-180°







(END OF REPORT)