

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: P584002

Luminaire Tested: **HC820D010-HM80520835-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584002
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: HC820D010-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: 2230.9 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

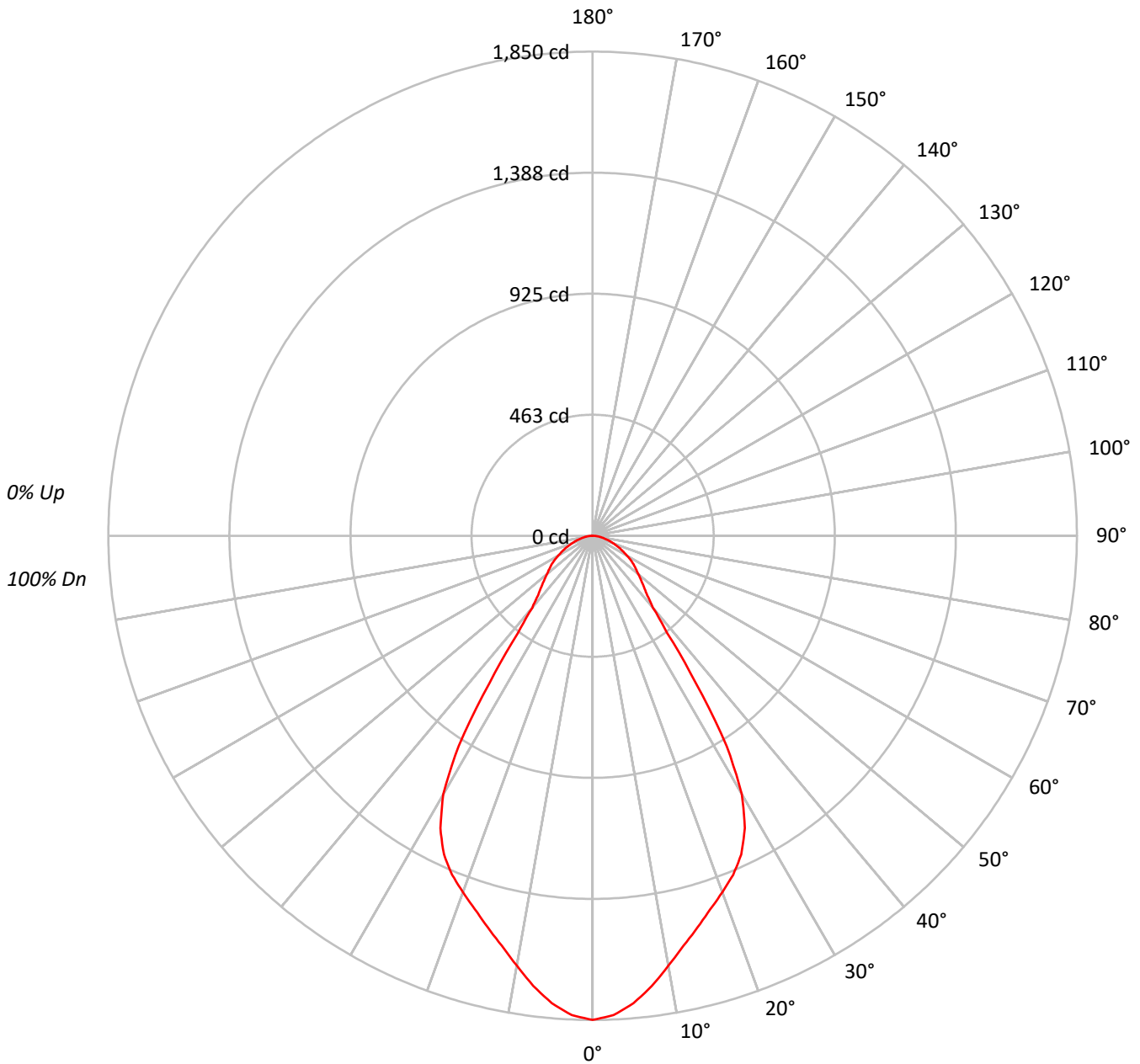
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54	54	54	54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46	46	46	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57041
5°	55488
10°	52216
15°	49434
20°	47553
25°	45718
30°	40606
35°	25858
40°	14431
45°	12088
50°	10909
55°	10290
60°	9380
65°	8464
70°	7474
75°	6648
80°	5878
85°	5307



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	7.5
10°-20°	436.7	19.6
20°-30°	609.3	27.3
30°-40°	438.4	19.7
40°-50°	217.3	9.7
50°-60°	170.0	7.6
60°-70°	115.1	5.2
70°-80°	59.8	2.7
80°-90°	17.2	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°	1213.1	54.4
0°-40°	1651.5	74.0
0°-60°	2038.8	91.4
0°-90°	2230.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2230.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1850	
5°	1793	167
15°	1548	437
25°	1344	609
35°	687	438
45°	277	217
55°	191	170
65°	116	115
75°	56	60
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1849.8
2.5°	1833.3
5°	1792.6
7.5°	1735.4
10°	1667.6
12.5°	1604.3
15°	1548.5
17.5°	1495.8
20°	1449.1
22.5°	1402.4
25°	1343.7
27.5°	1259.3
30°	1140.4
32.5°	953.5
35°	686.9
37.5°	468.5
40°	358.5
42.5°	308.9
45°	277.2
47.5°	250.1
50°	227.4
52.5°	207.9
55°	191.4
57.5°	171.7
60°	152.1
62.5°	132.6
65°	116.0
67.5°	99.4
70°	82.9
72.5°	69.3
75°	55.8
77.5°	43.7
80°	33.1
82.5°	24.1
85°	15.0
87.5°	7.6
90°	0.0



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— 0°-180°







(END OF REPORT)