

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: P584036

Luminaire Tested: **HC820D010-HM80520927-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520927-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1582.7 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

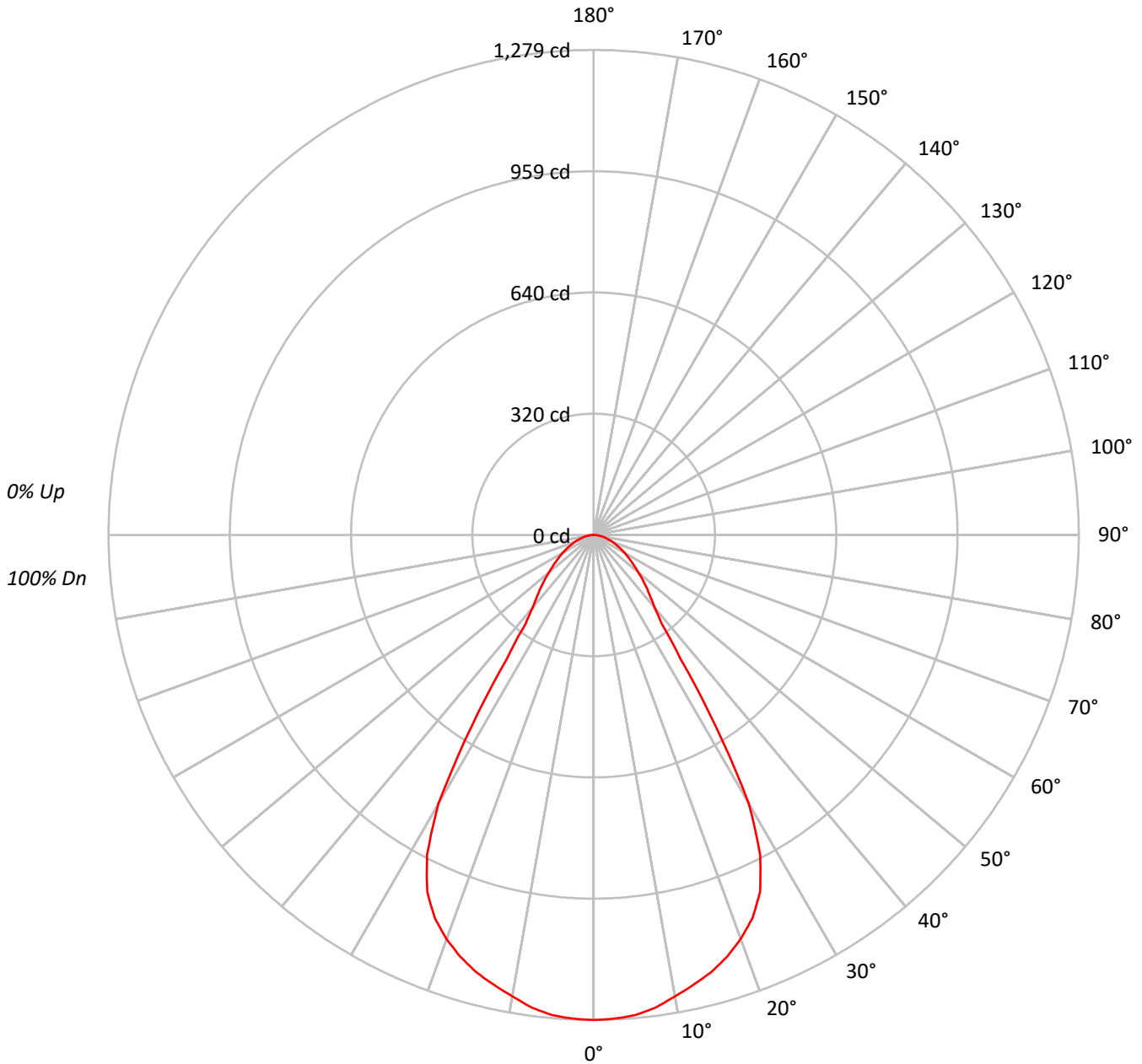
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	101	102	100	98	98	96	95	95	93	92	90																											
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81																											
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73																											
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67																											
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																											
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56																											
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52																											
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48																											
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45																											
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	39449
5°	39343
10°	38686
15°	38124
20°	37209
25°	35324
30°	29133
35°	15001
40°	10043
45°	8613
50°	7426
55°	6484
60°	5760
65°	5173
70°	4688
75°	4230
80°	3782
85°	3750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	7.6
10°-20°	336.0	21.2
20°-30°	465.5	29.4
30°-40°	279.6	17.7
40°-50°	153.1	9.7
50°-60°	108.7	6.9
60°-70°	70.6	4.5
70°-80°	37.7	2.4
80°-90°	11.3	0.7
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°	921.7	58.2
0°-40°	1201.3	75.9
0°-60°	1463.1	92.4
0°-90°	1582.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1582.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1279	
5°	1271	120
15°	1194	336
25°	1038	466
35°	398	280
45°	198	153
55°	121	109
65°	71	71
75°	36	38
85°	11	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1279.3
2.5°	1276.9
5°	1271.0
7.5°	1256.8
10°	1235.5
12.5°	1215.5
15°	1194.2
17.5°	1167.0
20°	1133.9
22.5°	1093.7
25°	1038.2
27.5°	950.7
30°	818.2
32.5°	599.5
35°	398.5
37.5°	294.4
40°	249.5
42.5°	221.2
45°	197.5
47.5°	174.9
50°	154.8
52.5°	135.9
55°	120.6
57.5°	106.4
60°	93.4
62.5°	81.6
65°	70.9
67.5°	60.3
70°	52.0
72.5°	42.6
75°	35.5
77.5°	28.4
80°	21.3
82.5°	15.4
85°	10.6
87.5°	4.7
90°	0.0



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— 0°-180°







(END OF REPORT)