

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: P581841

Luminaire Tested: **HC620D010-HM60525827-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525827-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1848.5 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

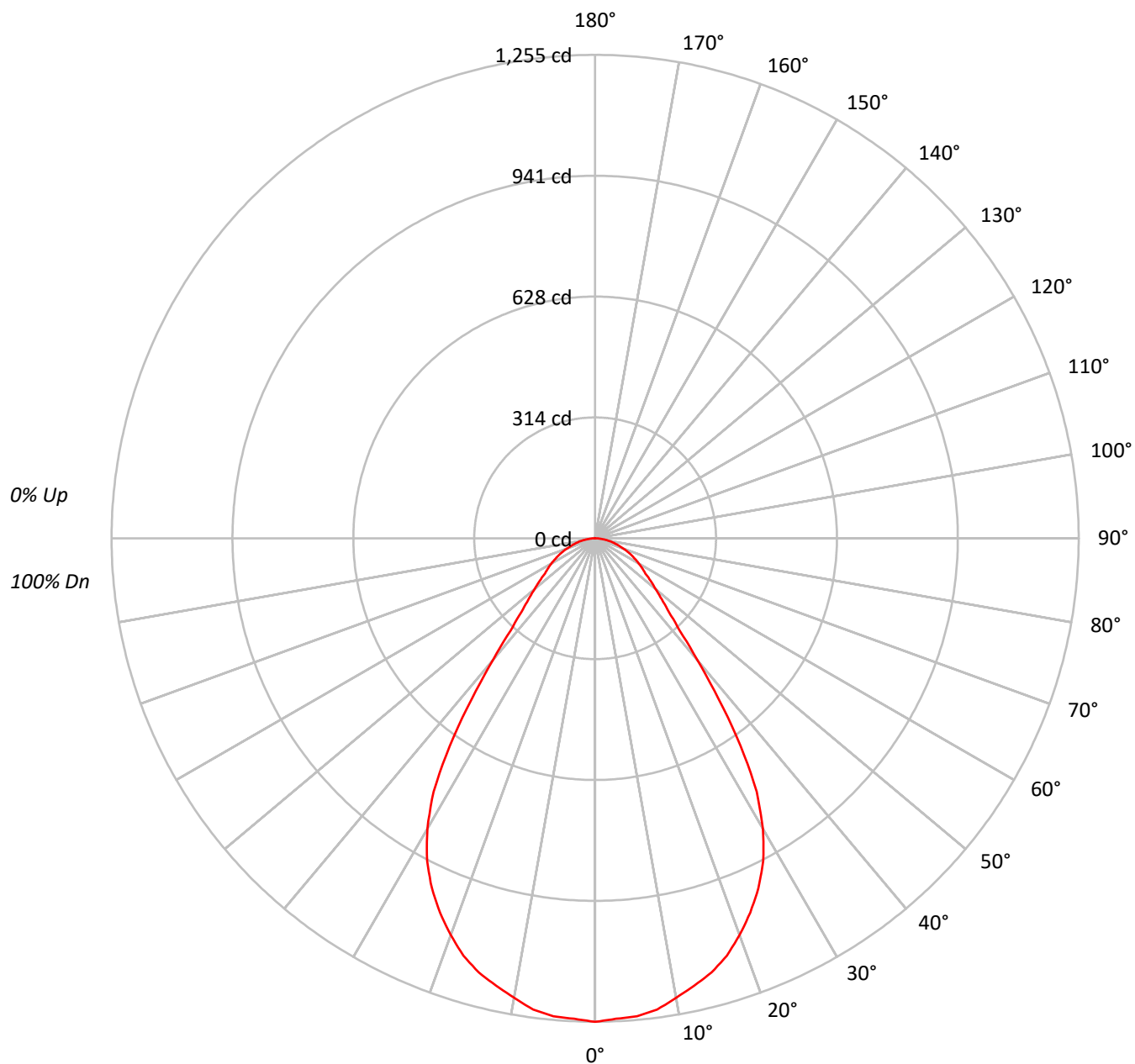
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	104	101	109	105	102	100	101	99	96		97	95	94		94
2	104	97	92	87	101	95	90	86	92	88	84		89	85	82		86
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73
5	84	74	66	61	82	73	66	61	71	65	60		69	64	59		67
6	79	68	61	55	77	67	60	55	65	59	55		64	58	54		62
7	74	63	55	50	73	62	55	50	61	54	50		59	54	50		58
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	68816
5°	68556
10°	67417
15°	66226
20°	63939
25°	60633
30°	55148
35°	44062
40°	29398
45°	20956
50°	17458
55°	15225
60°	14374
65°	13529
70°	12438
75°	11607
80°	10544
85°	9246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	6.4
10°-20°	327.7	17.7
20°-30°	457.9	24.8
30°-40°	403.3	21.8
40°-50°	217.9	11.8
50°-60°	145.7	7.9
60°-70°	103.2	5.6
70°-80°	58.0	3.1
80°-90°	16.9	0.9
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°	903.4	48.9
0°-40°	1306.7	70.7
0°-60°	1670.3	90.4
0°-90°	1848.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1848.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1255	
5°	1246	118
15°	1167	328
25°	1002	458
35°	658	403
45°	270	218
55°	159	146
65°	104	103
75°	55	58
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1255.3
2.5°	1248.6
5°	1245.8
7.5°	1233.8
10°	1211.1
12.5°	1189.6
15°	1166.9
17.5°	1136.2
20°	1096.0
22.5°	1051.9
25°	1002.4
27.5°	944.8
30°	871.2
32.5°	780.2
35°	658.4
37.5°	525.9
40°	410.8
42.5°	323.8
45°	270.3
47.5°	234.2
50°	204.7
52.5°	180.7
55°	159.3
57.5°	144.6
60°	131.1
62.5°	117.7
65°	104.3
67.5°	91.0
70°	77.6
72.5°	65.6
75°	54.8
77.5°	44.2
80°	33.4
82.5°	24.1
85°	14.7
87.5°	6.7
90°	0.0



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— 0°-180°







(END OF REPORT)