

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: P581923

Luminaire Tested: **HC620D010-HM60525927-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525927-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1650.5 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

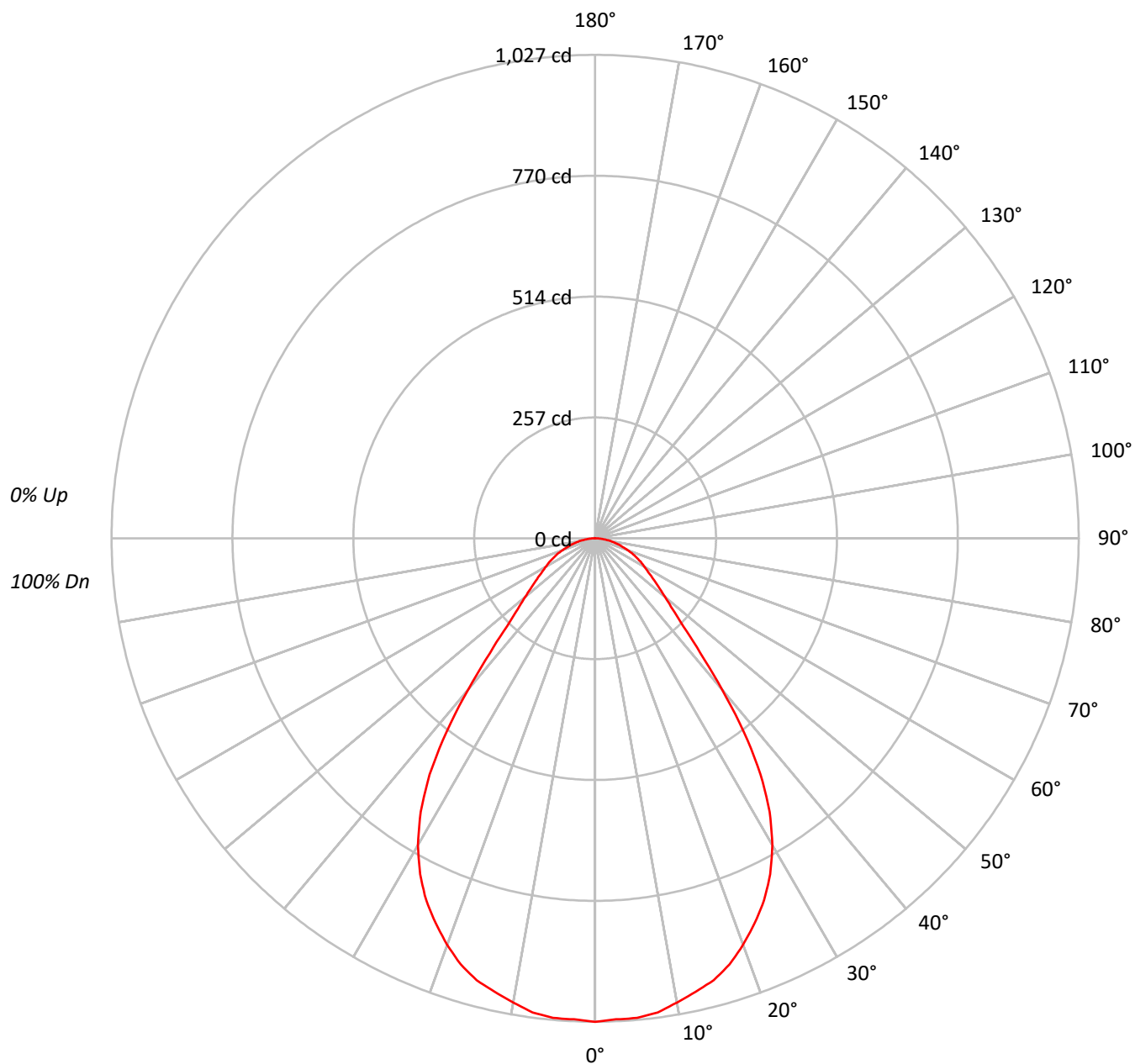
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	97	91	87	101	95	90	86		91	87	84			88	85	82			85
3	96	87	81	76	94	86	80	75		83	78	74			81	76	72			78
4	89	80	72	67	87	78	72	66		76	70	66			74	69	65			72
5	84	73	65	60	82	72	65	59		70	64	59			68	63	58			66
6	78	67	59	54	76	66	59	54		64	58	53			63	57	53			61
7	73	62	54	49	72	61	54	49		60	53	48			58	52	48			57
8	69	57	50	45	68	57	50	45		55	49	44			54	48	44			53
9	65	53	46	41	64	53	46	41		52	45	41			51	45	41			50
10	61	50	43	38	60	49	42	38		48	42	38			47	42	38			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	56322
5°	56290
10°	55738
15°	55165
20°	53607
25°	51342
30°	47653
35°	40997
40°	29927
45°	20498
50°	16486
55°	14365
60°	13256
65°	12608
70°	11765
75°	11014
80°	9976
85°	8554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	5.9
10°-20°	273.0	16.5
20°-30°	388.3	23.5
30°-40°	373.8	22.6
40°-50°	215.0	13.0
50°-60°	136.3	8.3
60°-70°	96.5	5.8
70°-80°	55.0	3.3
80°-90°	15.7	1.0
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°	758.2	45.9
0°-40°	1132.0	68.6
0°-60°	1483.3	89.9
0°-90°	1650.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1650.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1027	
5°	1023	97
15°	972	273
25°	849	388
35°	613	374
45°	264	215
55°	150	136
65°	97	96
75°	52	55
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1027.4
2.5°	1022.9
5°	1022.9
7.5°	1016.1
10°	1001.3
12.5°	986.7
15°	972.0
17.5°	949.3
20°	918.9
22.5°	885.0
25°	848.8
27.5°	804.8
30°	752.8
32.5°	689.4
35°	612.6
37.5°	518.8
40°	418.2
42.5°	330.0
45°	264.4
47.5°	222.6
50°	193.3
52.5°	169.5
55°	150.3
57.5°	133.4
60°	120.9
62.5°	109.7
65°	97.2
67.5°	85.9
70°	73.4
72.5°	62.2
75°	52.0
77.5°	41.8
80°	31.6
82.5°	22.7
85°	13.6
87.5°	5.7
90°	0.0



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— 0°-180°







(END OF REPORT)