

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: P581887

Luminaire Tested: **HC620D010-HM60525835-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581887
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-HM60525835-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2135.6 lumens
Efficiency: N/A
Efficacy: 106.8 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

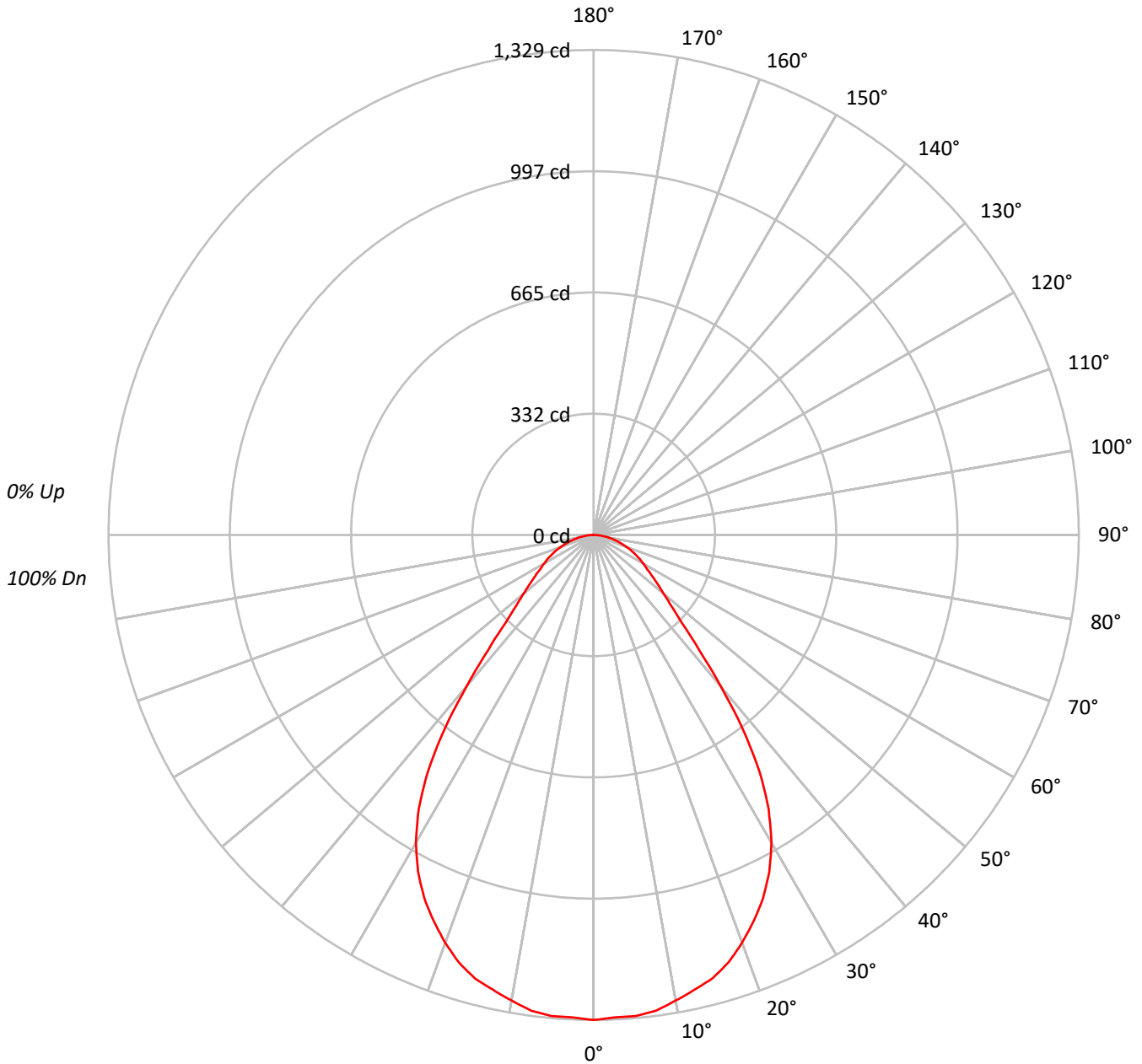
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72872
5°	72832
10°	72126
15°	71380
20°	69364
25°	66433
30°	61655
35°	53043
40°	38723
45°	26530
50°	21330
55°	18590
60°	17159
65°	16318
70°	15243
75°	14255
80°	12912
85°	11070



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	5.9
10°-20°	353.2	16.5
20°-30°	502.4	23.5
30°-40°	483.6	22.6
40°-50°	278.3	13.0
50°-60°	176.3	8.3
60°-70°	124.8	5.8
70°-80°	71.2	3.3
80°-90°	20.3	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°	981.0	45.9
0°-40°	1464.7	68.6
0°-60°	1919.3	89.9
0°-90°	2135.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2135.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1329	
5°	1324	125
15°	1258	353
25°	1098	502
35°	793	484
45°	342	278
55°	194	176
65°	126	125
75°	67	71
85°	18	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1329.3
2.5°	1323.5
5°	1323.5
7.5°	1314.7
10°	1295.7
12.5°	1276.7
15°	1257.7
17.5°	1228.4
20°	1189.0
22.5°	1145.1
25°	1098.3
27.5°	1041.2
30°	974.0
32.5°	892.1
35°	792.6
37.5°	671.3
40°	541.1
42.5°	427.0
45°	342.2
47.5°	288.1
50°	250.1
52.5°	219.3
55°	194.5
57.5°	172.6
60°	156.5
62.5°	141.9
65°	125.8
67.5°	111.1
70°	95.1
72.5°	80.4
75°	67.3
77.5°	54.2
80°	40.9
82.5°	29.2
85°	17.6
87.5°	7.4
90°	0.0



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— 0°-180°







(END OF REPORT)