

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: P581859

Luminaire Tested: **HC620D010-HM60525830-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581859
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-HM60525830-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1988.2 lumens
Efficiency: N/A
Efficacy: 99.4 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

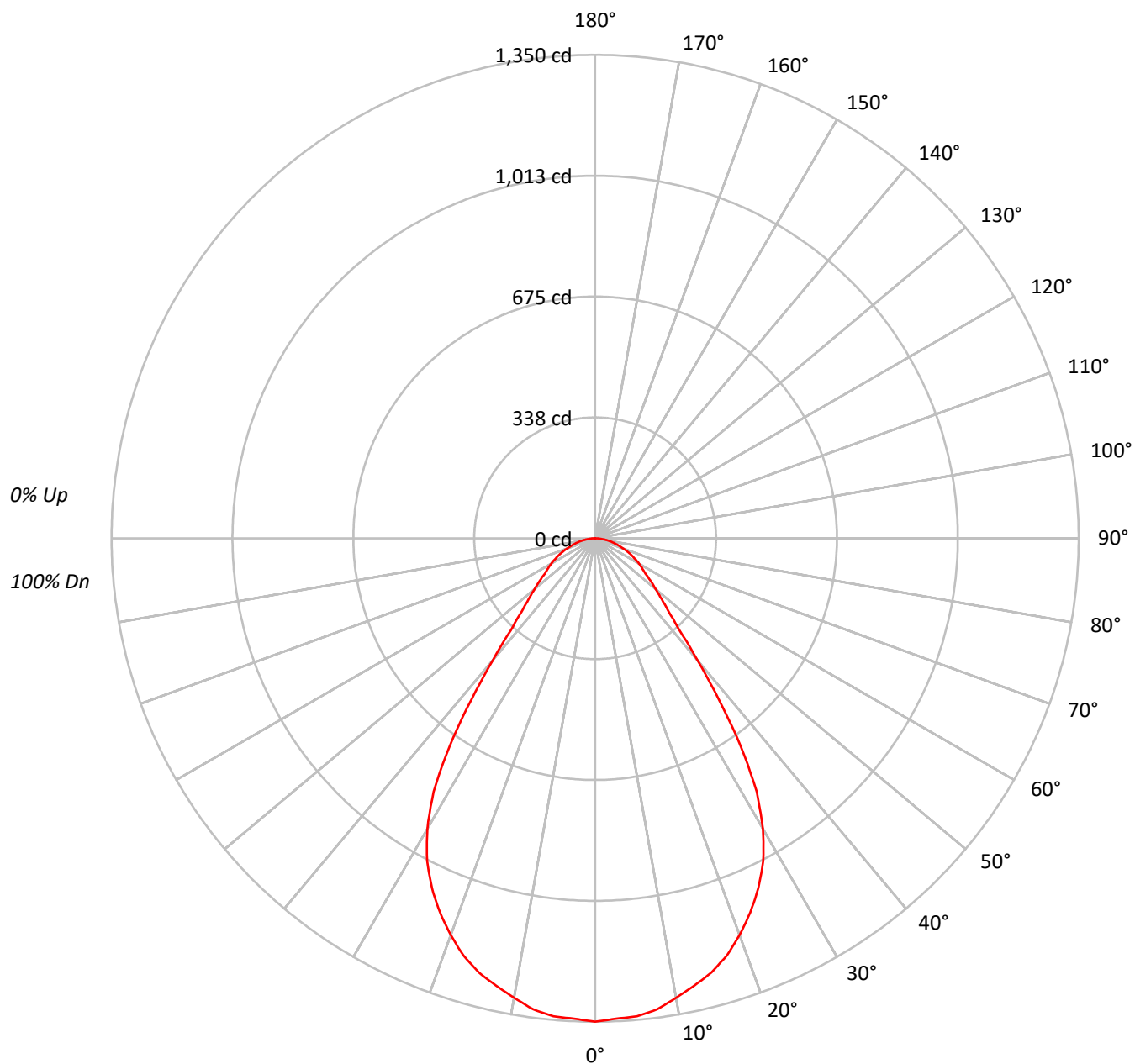
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63		
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57		
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48		
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	74007
5°	73734
10°	72505
15°	71226
20°	68769
25°	65199
30°	59313
35°	47388
40°	31624
45°	22537
50°	18788
55°	16372
60°	15470
65°	14567
70°	13384
75°	12497
80°	11365
85°	10001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	6.4
10°-20°	352.4	17.7
20°-30°	492.4	24.8
30°-40°	433.8	21.8
40°-50°	234.4	11.8
50°-60°	156.7	7.9
60°-70°	111.1	5.6
70°-80°	62.4	3.1
80°-90°	18.3	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°	971.5	48.9
0°-40°	1405.3	70.7
0°-60°	1796.4	90.4
0°-90°	1988.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1988.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1350	
5°	1340	127
15°	1255	352
25°	1078	492
35°	708	434
45°	291	234
55°	171	157
65°	112	111
75°	59	62
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1350.0
2.5°	1342.8
5°	1339.9
7.5°	1327.0
10°	1302.5
12.5°	1279.5
15°	1255.0
17.5°	1221.9
20°	1178.8
22.5°	1131.2
25°	1077.9
27.5°	1016.1
30°	937.0
32.5°	839.1
35°	708.1
37.5°	565.6
40°	441.9
42.5°	348.3
45°	290.7
47.5°	251.9
50°	220.3
52.5°	194.3
55°	171.3
57.5°	155.4
60°	141.1
62.5°	126.7
65°	112.3
67.5°	97.9
70°	83.5
72.5°	70.5
75°	59.0
77.5°	47.5
80°	36.0
82.5°	25.9
85°	15.9
87.5°	7.3
90°	0.0



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— 0°-180°







(END OF REPORT)