

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: P593134

Luminaire Tested: **HC620D010-HM60525850-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593134  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC620D010-HM60525850-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2055.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

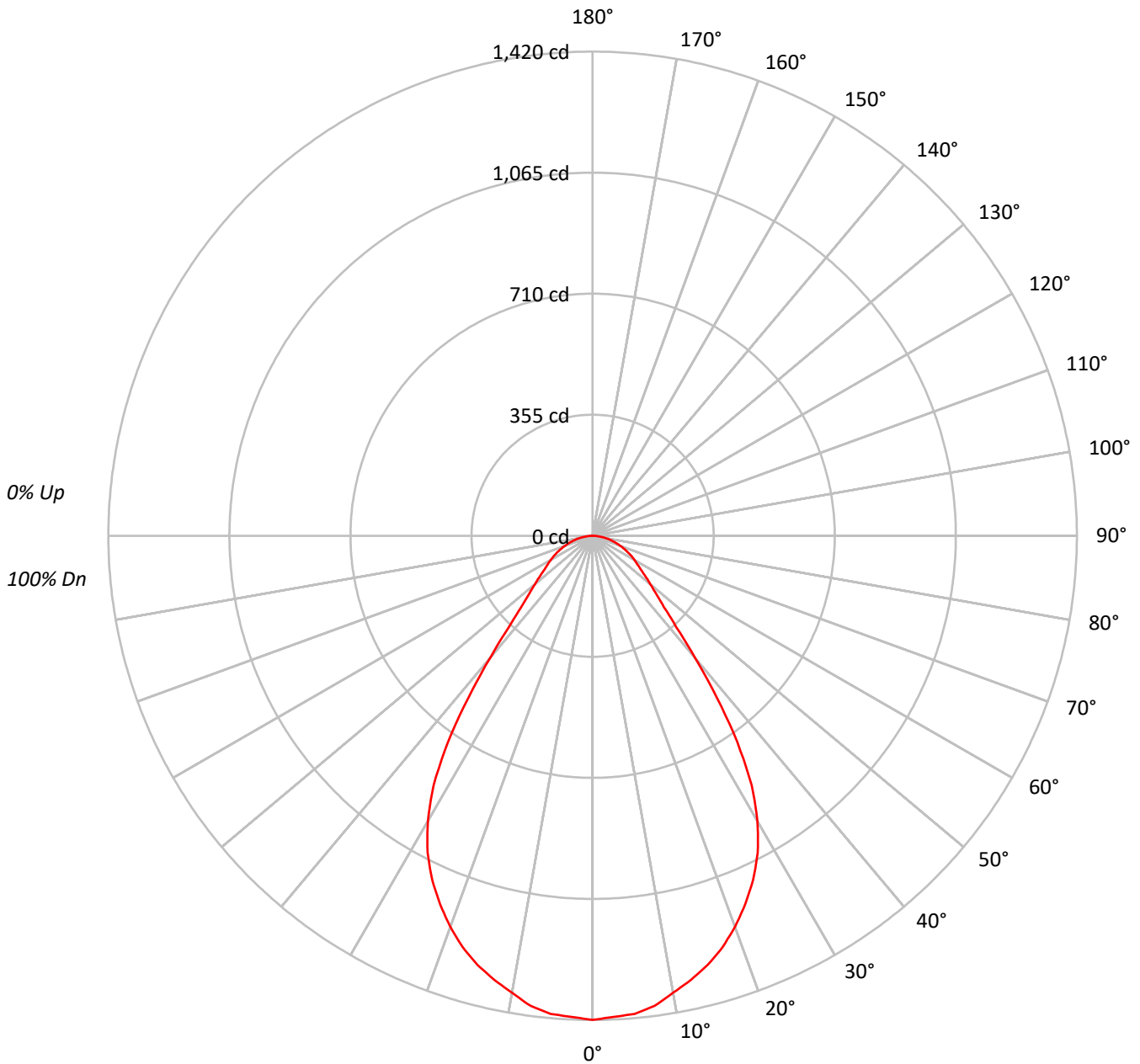
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	77834
5°	77460
10°	75750
15°	73973
20°	71196
25°	67335
30°	61187
35°	49530
40°	33398
45°	22956
50°	18805
55°	16458
60°	15569
65°	14697
70°	13800
75°	13132
80°	11902
85°	10504



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.9	6.5
10°-20°	366.0	17.8
20°-30°	508.5	24.7
30°-40°	452.8	22.0
40°-50°	240.3	11.7
50°-60°	157.2	7.7
60°-70°	112.7	5.5
70°-80°	65.4	3.2
80°-90°	19.1	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°	1007.5	49.0
0°-40°	1460.2	71.1
0°-60°	1857.8	90.4
0°-90°	2055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2055.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1420	
5°	1408	133
15°	1303	366
25°	1113	509
35°	740	453
45°	296	240
55°	172	157
65°	113	113
75°	62	65
85°	17	19
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1419.8
2.5°	1412.2
5°	1407.6
7.5°	1391.0
10°	1360.8
12.5°	1333.7
15°	1303.4
17.5°	1265.7
20°	1220.4
22.5°	1169.0
25°	1113.2
27.5°	1048.1
30°	966.6
32.5°	868.4
35°	740.1
37.5°	598.1
40°	466.7
42.5°	362.4
45°	296.1
47.5°	252.2
50°	220.5
52.5°	194.9
55°	172.2
57.5°	155.6
60°	142.0
62.5°	128.4
65°	113.3
67.5°	99.7
70°	86.1
72.5°	74.0
75°	62.0
77.5°	49.9
80°	37.7
82.5°	27.2
85°	16.7
87.5°	7.6
90°	0.0



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— 0°-180°







(END OF REPORT)