

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: P582300

Luminaire Tested: **HC635D010-HM63040830-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582300  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC635D010-HM63040830-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3859.3 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

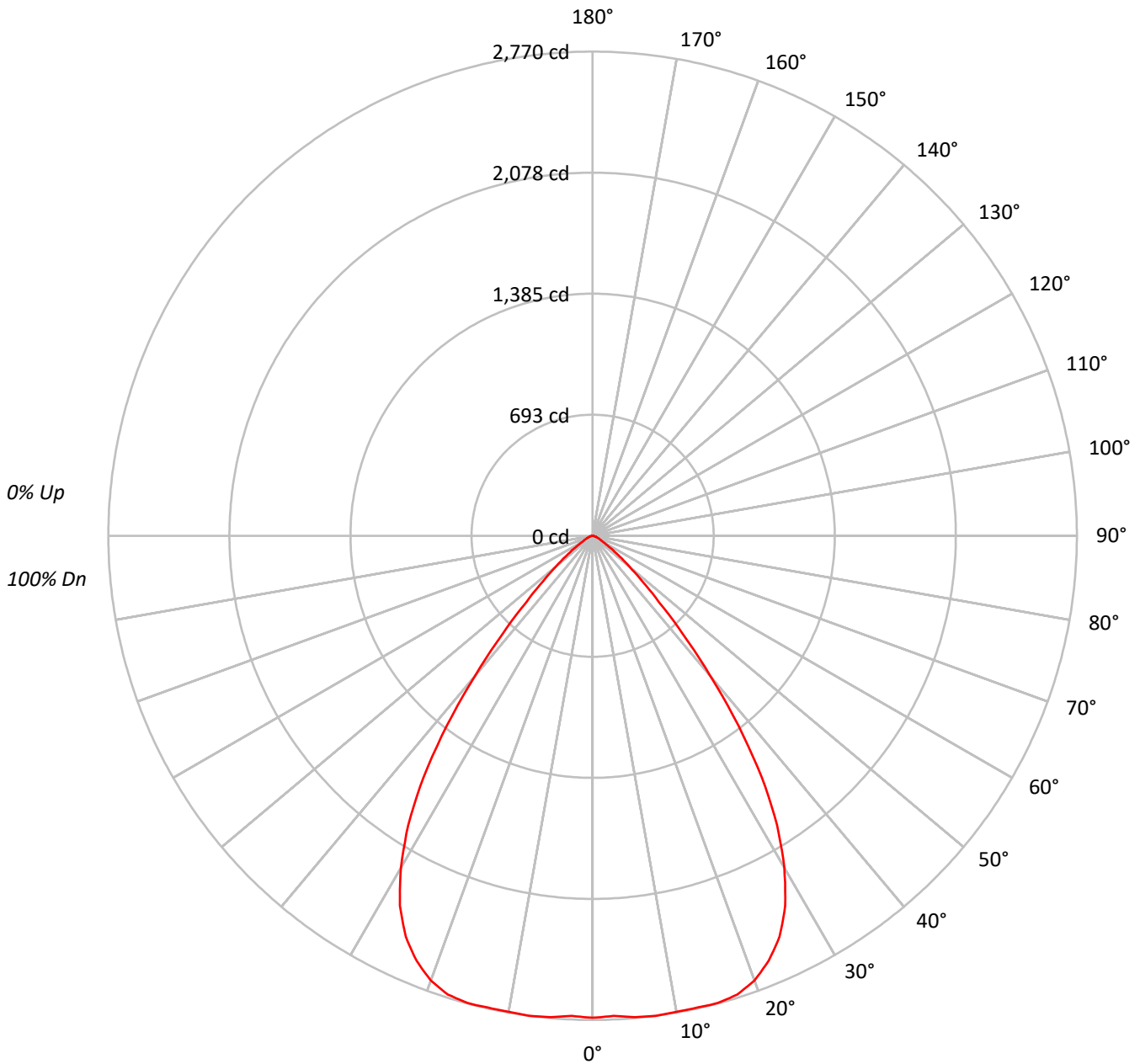
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64	64	64	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59	59	59	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43	43	43	43

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

	0°
0°	151150
5°	152157
10°	153916
15°	157067
20°	157957
25°	153027
30°	138825
35°	112879
40°	74919
45°	41702
50°	23377
55°	12970
60°	7149
65°	5422
70°	3767
75°	2775
80°	1673
85°	1635



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.9	6.8
10°-20°	780.4	20.2
20°-30°	1150.2	29.8
30°-40°	1028.7	26.7
40°-50°	446.3	11.6
50°-60°	131.1	3.4
60°-70°	41.8	1.1
70°-80°	14.8	0.4
80°-90°	2.1	0.1
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°	2194.4	56.9
0°-40°	3223.2	83.5
0°-60°	3800.6	98.5
0°-90°	3859.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3859.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2757	
5°	2765	264
15°	2768	780
25°	2530	1150
35°	1687	1029
45°	538	446
55°	136	131
65°	42	42
75°	13	15
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2757.2
2.5°	2749.3
5°	2765.0
7.5°	2770.2
10°	2765.0
12.5°	2765.0
15°	2767.5
17.5°	2751.9
20°	2707.6
22.5°	2631.8
25°	2529.9
27.5°	2386.4
30°	2193.1
32.5°	1963.4
35°	1686.7
37.5°	1370.8
40°	1046.9
42.5°	765.0
45°	537.9
47.5°	383.8
50°	274.1
52.5°	195.8
55°	135.7
57.5°	91.4
60°	65.2
62.5°	52.2
65°	41.8
67.5°	31.3
70°	23.5
72.5°	18.3
75°	13.1
77.5°	10.4
80°	5.3
82.5°	2.6
85°	2.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)