

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: P582373

Luminaire Tested: **HC635D010-HM63040930-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582373
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: HC635D010-HM63040930-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3581.5 lumens
Efficiency: N/A
Efficacy: 106.3 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

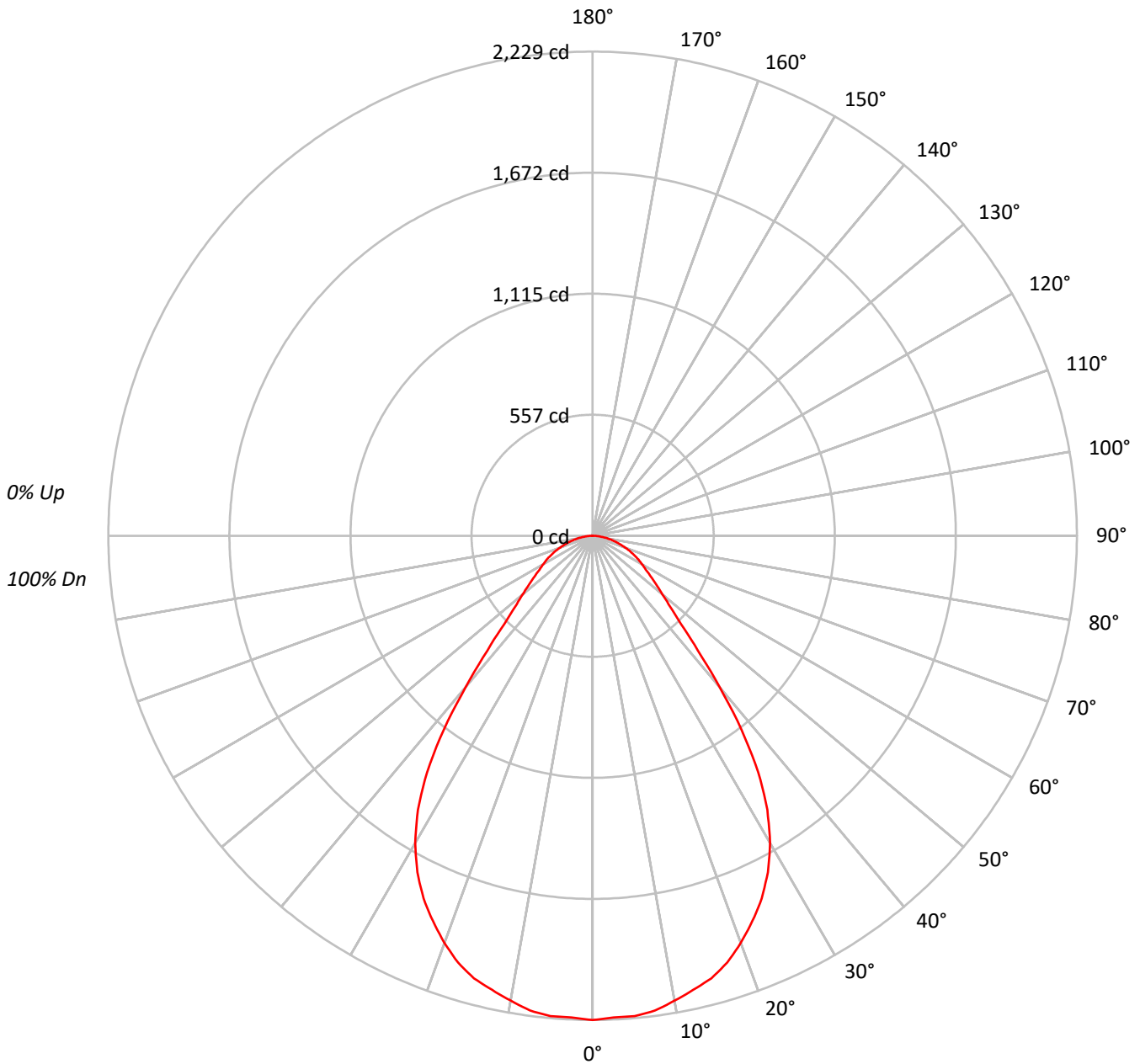
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	122216
5°	122144
10°	120967
15°	119717
20°	116333
25°	111418
30°	103396
35°	88961
40°	64943
45°	44493
50°	35769
55°	31177
60°	28781
65°	27357
70°	25549
75°	23892
80°	21657
85°	18492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	5.9
10°-20°	592.4	16.5
20°-30°	842.5	23.5
30°-40°	811.1	22.6
40°-50°	466.7	13.0
50°-60°	295.7	8.3
60°-70°	209.3	5.8
70°-80°	119.3	3.3
80°-90°	34.0	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°	1645.3	45.9
0°-40°	2456.4	68.6
0°-60°	3218.8	89.9
0°-90°	3581.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3581.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2229	
5°	2220	210
15°	2109	592
25°	1842	843
35°	1329	811
45°	574	467
55°	326	296
65°	211	209
75°	113	119
85°	29	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2229.4
2.5°	2219.6
5°	2219.6
7.5°	2204.9
10°	2173.1
12.5°	2141.2
15°	2109.4
17.5°	2060.2
20°	1994.1
22.5°	1920.4
25°	1842.0
27.5°	1746.3
30°	1633.4
32.5°	1496.1
35°	1329.3
37.5°	1125.8
40°	907.5
42.5°	716.2
45°	573.9
47.5°	483.1
50°	419.4
52.5°	368.0
55°	326.2
57.5°	289.4
60°	262.5
62.5°	238.0
65°	210.9
67.5°	186.4
70°	159.4
72.5°	134.9
75°	112.8
77.5°	90.8
80°	68.6
82.5°	49.0
85°	29.4
87.5°	12.3
90°	0.0



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— 0°-180°







(END OF REPORT)