

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: P582410

Luminaire Tested: **HC635D010-HM63040940-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040940-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3902.8 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

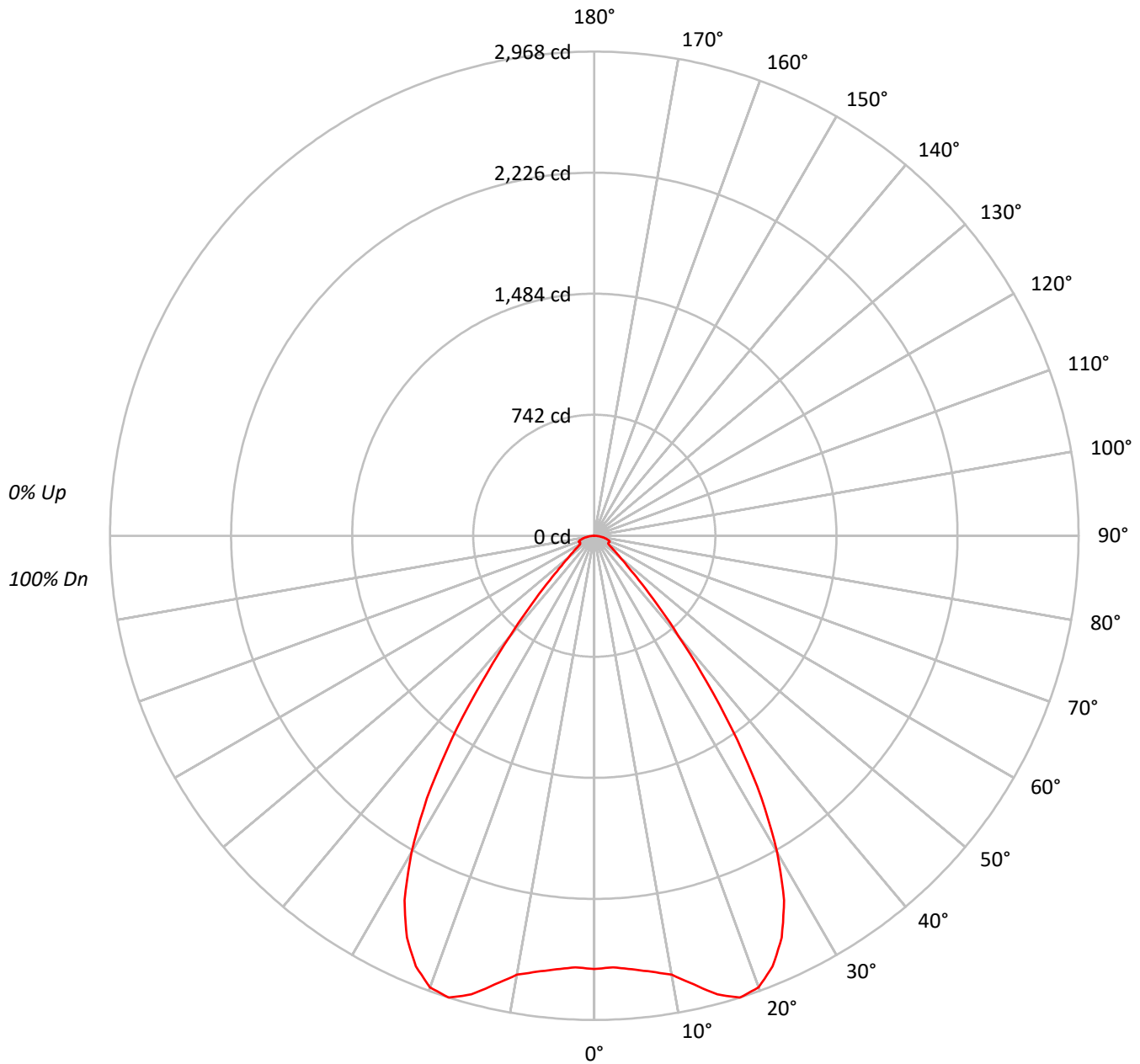
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	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
1	112	109	106	103		110	107	104	102		103	100	98		99	97	95		95	94	93
2	106	100	95	91		103	98	94	90		95	91	88		92	89	86		89	86	84
3	99	92	86	81		97	90	85	81		88	83	79		85	81	78		83	80	77
4	93	85	78	73		91	83	78	73		81	76	72		79	75	71		77	73	70
5	88	78	72	67		86	77	71	66		75	70	66		74	69	65		72	68	65
6	83	73	66	61		81	72	66	61		70	65	60		69	64	60		67	63	60
7	78	68	61	56		77	67	61	56		66	60	56		64	59	55		63	59	55
8	74	63	57	52		73	63	56	52		61	56	52		60	55	51		59	55	51
9	70	59	53	48		69	59	52	48		58	52	48		57	51	48		56	51	48
10	66	56	49	45		65	55	49	45		54	48	45		53	48	44		53	48	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	145564
5°	146797
10°	152090
15°	165200
20°	171842
25°	164368
30°	141851
35°	102138
40°	57544
45°	29817
50°	17773
55°	12807
60°	10887
65°	12543
70°	15916
75°	16818
80°	16479
85°	15662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	6.6
10°-20°	821.0	21.0
20°-30°	1227.1	31.4
30°-40°	938.1	24.0
40°-50°	327.6	8.4
50°-60°	124.8	3.2
60°-70°	97.9	2.5
70°-80°	82.8	2.1
80°-90°	26.7	0.7
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°	2304.8	59.1
0°-40°	3242.9	83.1
0°-60°	3695.3	94.7
0°-90°	3902.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3902.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2655	
5°	2668	257
15°	2911	821
25°	2717	1227
35°	1526	938
45°	385	328
55°	134	125
65°	97	98
75°	79	83
85°	25	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2655.3
2.5°	2647.8
5°	2667.6
7.5°	2695.0
10°	2732.2
12.5°	2816.6
15°	2910.8
17.5°	2967.9
20°	2945.6
22.5°	2856.2
25°	2717.4
27.5°	2518.7
30°	2240.9
32.5°	1908.3
35°	1526.2
37.5°	1131.6
40°	804.1
42.5°	563.3
45°	384.6
47.5°	270.5
50°	208.4
52.5°	163.7
55°	134.0
57.5°	109.2
60°	99.3
62.5°	96.7
65°	96.7
67.5°	101.8
70°	99.3
72.5°	91.8
75°	79.4
77.5°	67.0
80°	52.2
82.5°	37.2
85°	24.9
87.5°	9.9
90°	0.0



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— 0°-180°







(END OF REPORT)