

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: P582355

Luminaire Tested: **HC635D010-HM63040927-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582355
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-HM63040927-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2998.5 lumens
Efficiency: N/A
Efficacy: 89.0 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

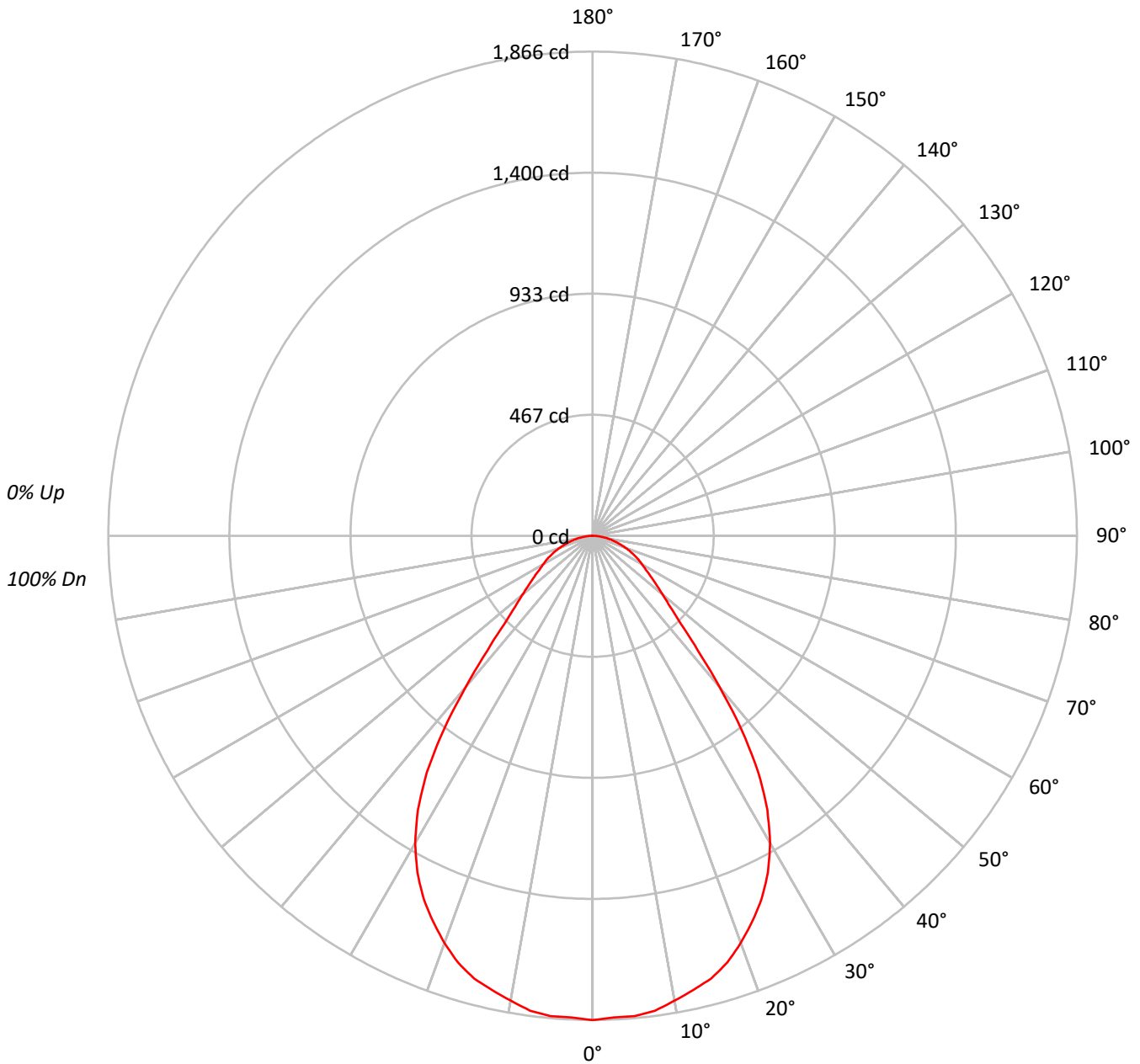
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582355

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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°	102322
5°	102261
10°	101267
15°	100222
20°	97390
25°	93278
30°	86570
35°	74485
40°	54366
45°	37252
50°	29952
55°	26102
60°	24088
65°	22908
70°	21398
75°	19995
80°	18153
85°	15473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	5.9
10°-20°	495.9	16.5
20°-30°	705.4	23.5
30°-40°	679.1	22.6
40°-50°	390.7	13.0
50°-60°	247.6	8.3
60°-70°	175.2	5.8
70°-80°	99.9	3.3
80°-90°	28.5	1.0
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°	1377.5	45.9
0°-40°	2056.5	68.6
0°-60°	2694.8	89.9
0°-90°	2998.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1866	
5°	1858	176
15°	1766	496
25°	1542	705
35°	1113	679
45°	480	391
55°	273	248
65°	177	175
75°	94	100
85°	25	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1866.5
2.5°	1858.3
5°	1858.3
7.5°	1846.0
10°	1819.2
12.5°	1792.6
15°	1765.9
17.5°	1724.8
20°	1669.4
22.5°	1607.8
25°	1542.1
27.5°	1462.0
30°	1367.6
32.5°	1252.5
35°	1113.0
37.5°	942.5
40°	759.7
42.5°	599.6
45°	480.5
47.5°	404.5
50°	351.2
52.5°	308.0
55°	273.1
57.5°	242.3
60°	219.7
62.5°	199.2
65°	176.6
67.5°	156.0
70°	133.5
72.5°	113.0
75°	94.4
77.5°	76.0
80°	57.5
82.5°	41.1
85°	24.6
87.5°	10.3
90°	0.0



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— 0°-180°







(END OF REPORT)