

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: P582363

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040930-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3387.8 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

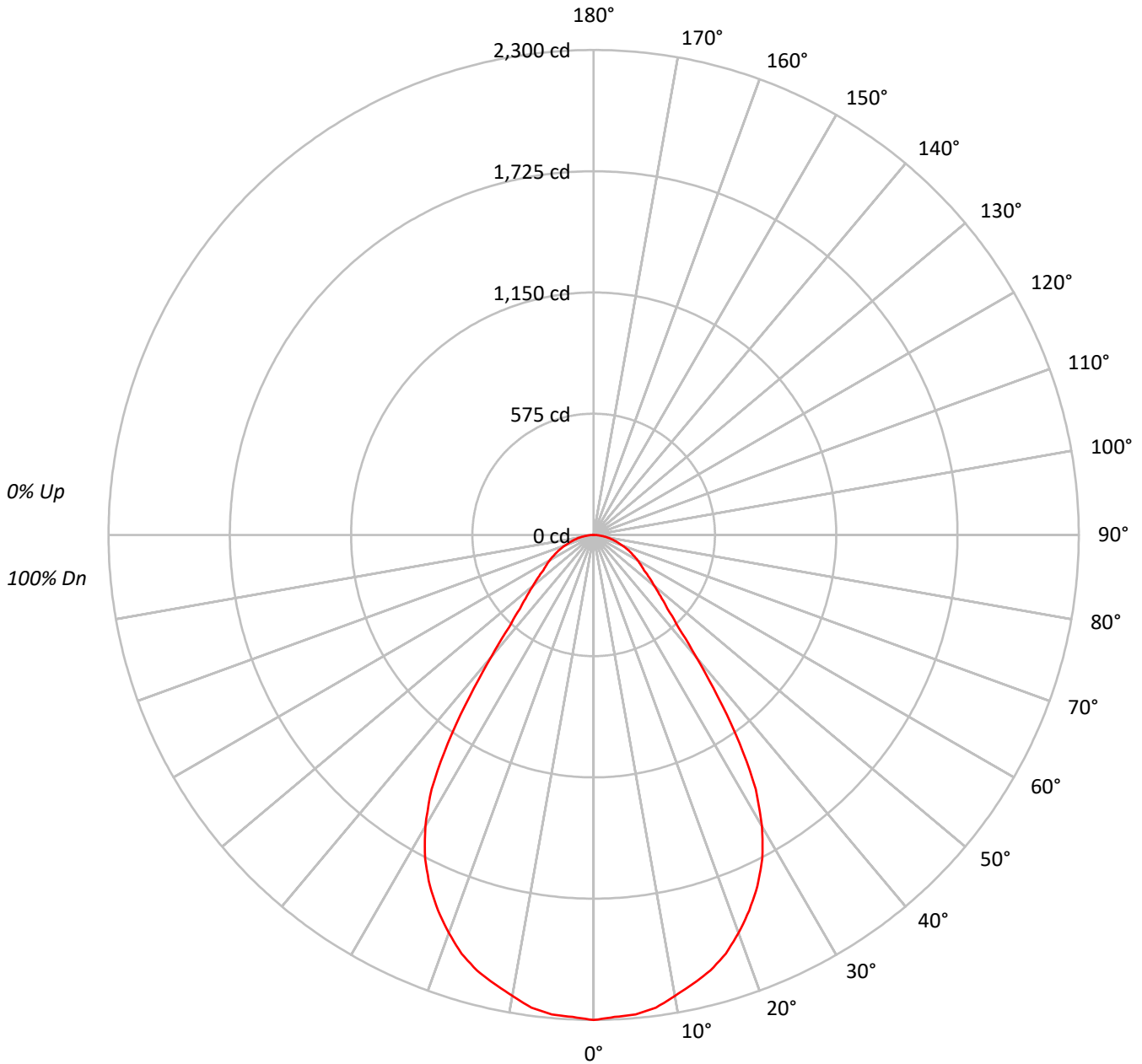
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	126114
5°	125655
10°	123550
15°	121374
20°	117179
25°	111115
30°	101066
35°	80756
40°	53880
45°	38407
50°	31999
55°	27899
60°	26358
65°	24815
70°	22808
75°	21308
80°	19352
85°	16983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	6.4
10°-20°	600.5	17.7
20°-30°	839.1	24.8
30°-40°	739.2	21.8
40°-50°	399.3	11.8
50°-60°	267.0	7.9
60°-70°	189.3	5.6
70°-80°	106.4	3.1
80°-90°	31.0	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°	1655.5	48.9
0°-40°	2394.7	70.7
0°-60°	3061.1	90.4
0°-90°	3387.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3387.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2300	
5°	2283	216
15°	2139	600
25°	1837	839
35°	1207	739
45°	495	399
55°	292	267
65°	191	189
75°	101	106
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2300.5
2.5°	2288.3
5°	2283.4
7.5°	2261.2
10°	2219.5
12.5°	2180.3
15°	2138.6
17.5°	2082.2
20°	2008.6
22.5°	1927.7
25°	1837.0
27.5°	1731.5
30°	1596.6
32.5°	1429.8
35°	1206.7
37.5°	963.8
40°	752.9
42.5°	593.5
45°	495.4
47.5°	429.2
50°	375.2
52.5°	331.1
55°	291.9
57.5°	264.9
60°	240.4
62.5°	215.8
65°	191.3
67.5°	166.8
70°	142.3
72.5°	120.2
75°	100.6
77.5°	81.0
80°	61.3
82.5°	44.1
85°	27.0
87.5°	12.3
90°	0.0



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— 0°-180°







(END OF REPORT)