

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: P582428

Luminaire Tested: **HC640D010-HM63040827-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582428
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: HC640D010-HM63040827-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4442.8 lumens
Efficiency: N/A
Efficacy: 108.4 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

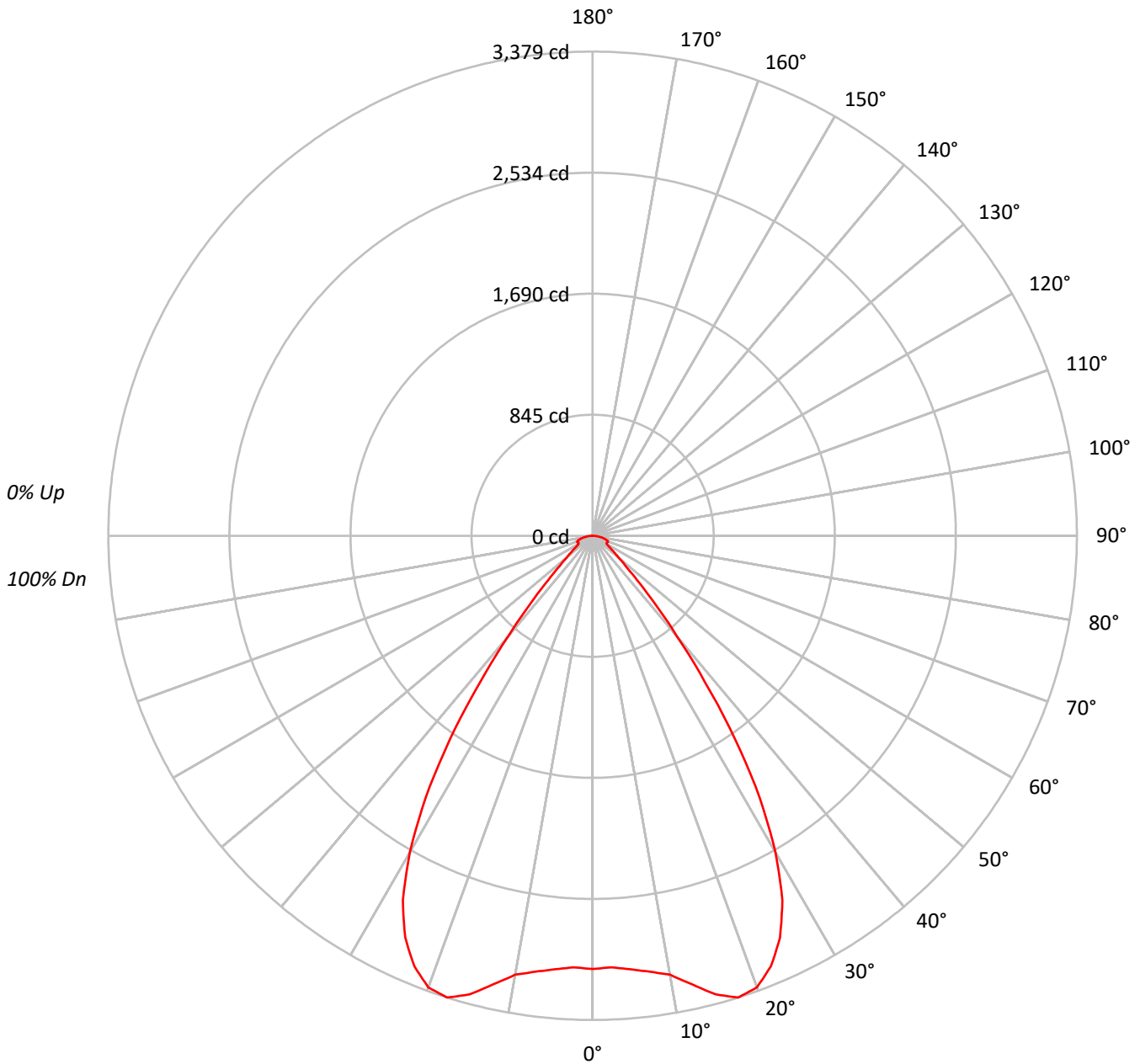
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165710
5°	167119
10°	173138
15°	188066
20°	195626
25°	187106
30°	161474
35°	116272
40°	65501
45°	33949
50°	20238
55°	14585
60°	12389
65°	14282
70°	18112
75°	19148
80°	18752
85°	17738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.2	6.6
10°-20°	934.6	21.0
20°-30°	1396.9	31.4
30°-40°	1067.8	24.0
40°-50°	373.0	8.4
50°-60°	142.1	3.2
60°-70°	111.4	2.5
70°-80°	94.3	2.1
80°-90°	30.3	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°	2623.8	59.1
0°-40°	3691.6	83.1
0°-60°	4206.8	94.7
0°-90°	4442.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4442.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3023	
5°	3037	292
15°	3314	935
25°	3093	1397
35°	1737	1068
45°	438	373
55°	153	142
65°	110	111
75°	90	94
85°	28	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3022.8
2.5°	3014.2
5°	3036.9
7.5°	3067.9
10°	3110.3
12.5°	3206.4
15°	3313.7
17.5°	3378.6
20°	3353.3
22.5°	3251.5
25°	3093.3
27.5°	2867.4
30°	2550.9
32.5°	2172.4
35°	1737.4
37.5°	1288.1
40°	915.3
42.5°	641.3
45°	437.9
47.5°	308.0
50°	237.3
52.5°	186.5
55°	152.6
57.5°	124.2
60°	113.0
62.5°	110.1
65°	110.1
67.5°	115.8
70°	113.0
72.5°	104.5
75°	90.4
77.5°	76.2
80°	59.4
82.5°	42.3
85°	28.2
87.5°	11.3
90°	0.0



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— 0°-180°







(END OF REPORT)