

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: P581898

Luminaire Tested: **HC620D010-HM60525840-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525840-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2055.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

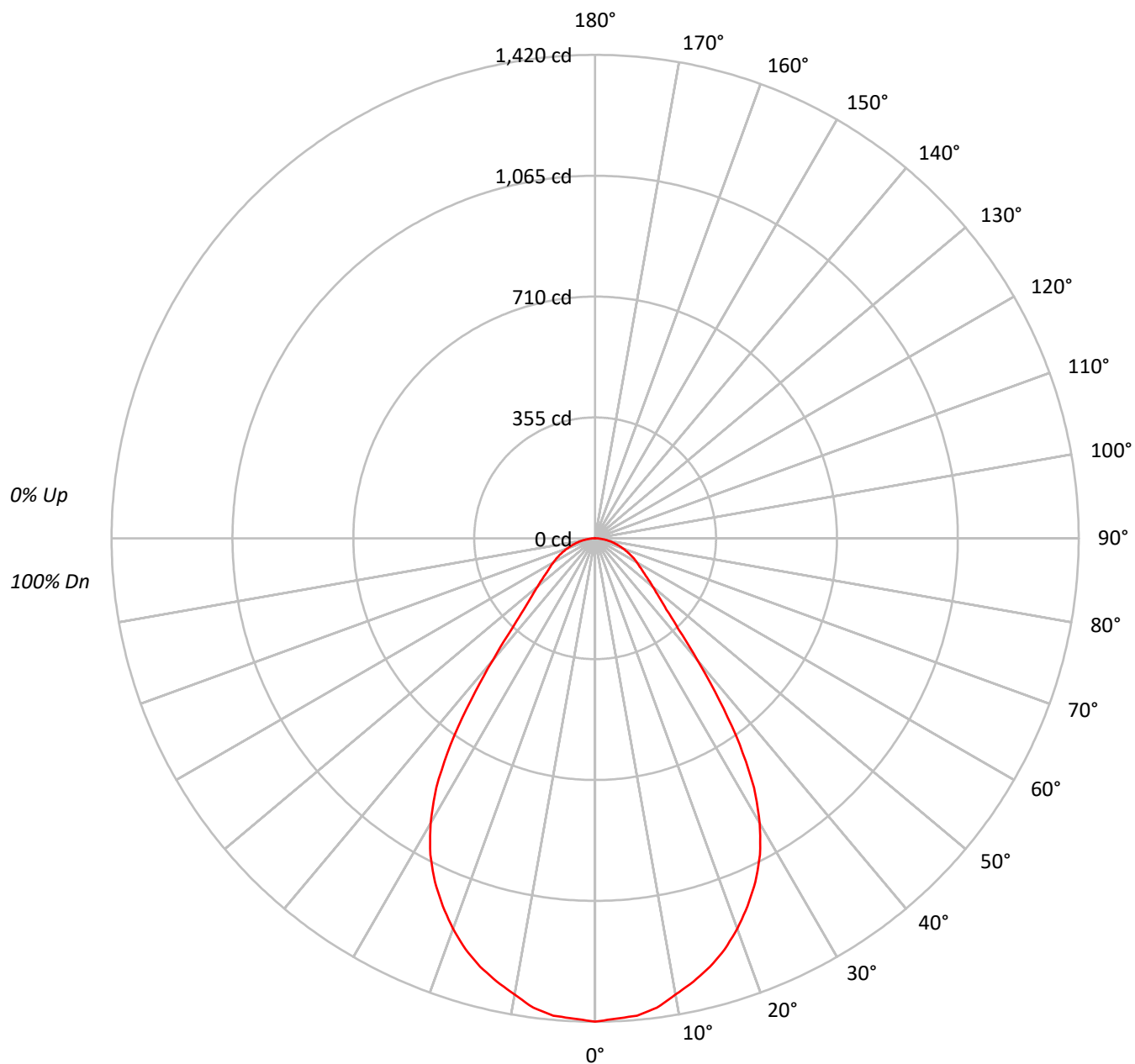
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101		109	105	102	100		101	99	96		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	83		86	83	81
3	97	88	82	77		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	81	73	68		88	79	73	68		77	71	67		75	70	66		73	69	65
5	84	74	67	61		83	73	66	61		71	65	60		69	64	60		67	63	59
6	79	68	61	55		77	67	60	55		66	59	55		64	59	54		63	58	54
7	74	63	56	50		73	62	55	50		61	55	50		60	54	50		58	53	49
8	70	59	51	46		69	58	51	46		57	50	46		56	50	46		54	49	46
9	66	55	48	43		65	54	47	43		53	47	42		52	46	42		51	46	42
10	62	51	44	40		61	51	44	40		50	44	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	77834
5°	77460
10°	75750
15°	73973
20°	71196
25°	67335
30°	61187
35°	49530
40°	33398
45°	22956
50°	18805
55°	16458
60°	15569
65°	14697
70°	13800
75°	13132
80°	11902
85°	10504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	6.5
10°-20°	366.0	17.8
20°-30°	508.5	24.7
30°-40°	452.8	22.0
40°-50°	240.3	11.7
50°-60°	157.2	7.7
60°-70°	112.7	5.5
70°-80°	65.4	3.2
80°-90°	19.1	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°	1007.5	49.0
0°-40°	1460.2	71.1
0°-60°	1857.8	90.4
0°-90°	2055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2055.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1420	
5°	1408	133
15°	1303	366
25°	1113	509
35°	740	453
45°	296	240
55°	172	157
65°	113	113
75°	62	65
85°	17	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1419.8
2.5°	1412.2
5°	1407.6
7.5°	1391.0
10°	1360.8
12.5°	1333.7
15°	1303.4
17.5°	1265.7
20°	1220.4
22.5°	1169.0
25°	1113.2
27.5°	1048.1
30°	966.6
32.5°	868.4
35°	740.1
37.5°	598.1
40°	466.7
42.5°	362.4
45°	296.1
47.5°	252.2
50°	220.5
52.5°	194.9
55°	172.2
57.5°	155.6
60°	142.0
62.5°	128.4
65°	113.3
67.5°	99.7
70°	86.1
72.5°	74.0
75°	62.0
77.5°	49.9
80°	37.7
82.5°	27.2
85°	16.7
87.5°	7.6
90°	0.0



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— 0°-180°







(END OF REPORT)