

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: P581849

Luminaire Tested: **HC620D010-HM60525827-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525827-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2159.1 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

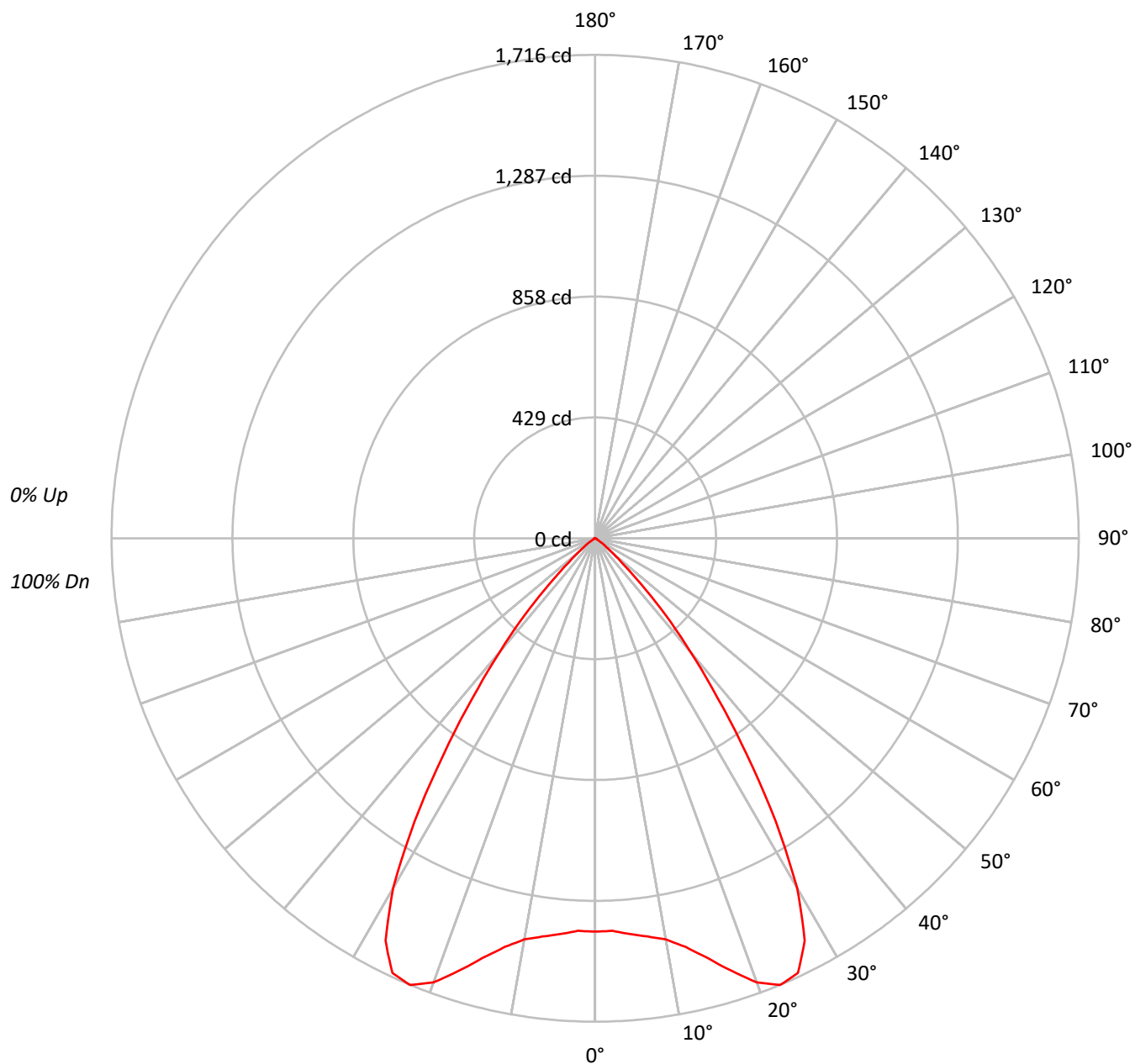
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	82		88	84	81		85
4	95	87	81	77	93	86	80	76	84	79	75		82	78	74		80
5	90	81	75	70	88	80	74	70	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	63	59	79	69	63	59	68	62	58		67	62	58		66
8	76	65	59	54	74	65	59	54	64	58	54		62	57	54		61
9	71	61	55	50	70	60	54	50	60	54	50		59	53	50		58
10	68	57	51	47	67	57	51	47	56	50	46		55	50	46		54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76540
5°	77575
10°	80482
15°	87520
20°	97857
25°	102998
30°	90679
35°	62888
40°	37556
45°	17847
50°	6738
55°	2819
60°	877
65°	687
70°	433
75°	297
80°	442
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	6.3
10°-20°	442.8	20.5
20°-30°	758.8	35.1
30°-40°	589.3	27.3
40°-50°	194.8	9.0
50°-60°	29.9	1.4
60°-70°	5.3	0.2
70°-80°	2.0	0.1
80°-90°	0.6	0.0
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°	1337.3	61.9
0°-40°	1926.6	89.2
0°-60°	2151.3	99.6
0°-90°	2159.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2159.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1396	
5°	1410	136
15°	1542	443
25°	1703	759
35°	940	589
45°	230	195
55°	30	30
65°	5	5
75°	1	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1396.2
2.5°	1394.9
5°	1409.7
7.5°	1425.7
10°	1445.8
12.5°	1485.9
15°	1542.1
17.5°	1610.4
20°	1677.4
22.5°	1716.2
25°	1702.8
27.5°	1610.4
30°	1432.5
32.5°	1192.8
35°	939.7
37.5°	713.6
40°	524.8
42.5°	370.8
45°	230.2
47.5°	128.5
50°	79.0
52.5°	48.2
55°	29.5
57.5°	14.7
60°	8.0
62.5°	6.7
65°	5.3
67.5°	4.0
70°	2.7
72.5°	2.7
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)