

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: P581943

Luminaire Tested: **HC620D010-HM60525930-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525930-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1563.5 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

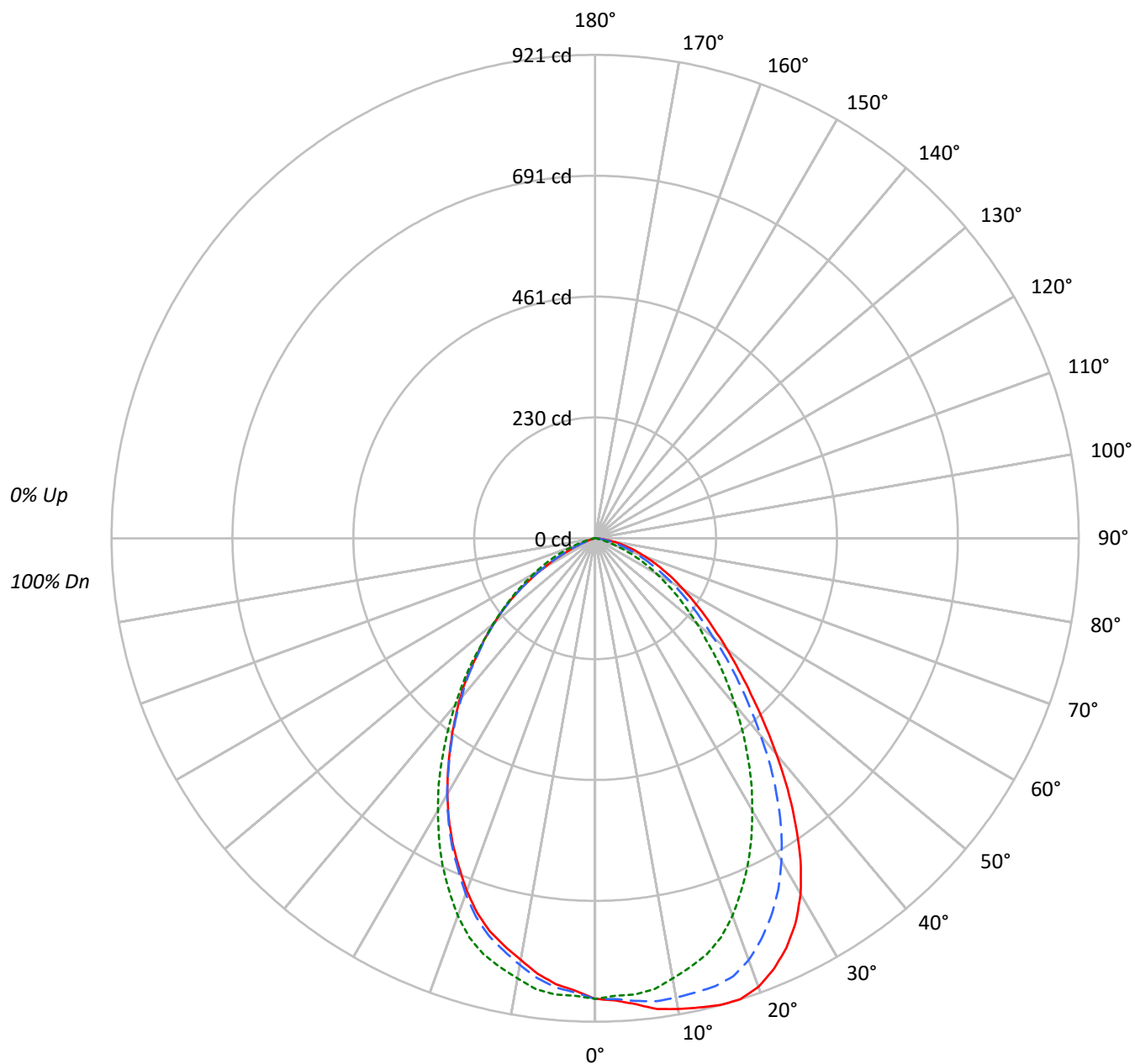
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	67	63	61		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	48099	48099	48099
5°	49031	48008	46924
10°	50695	47394	45401
15°	52248	46572	43984
20°	53059	44635	41683
25°	52098	41579	38815
30°	49520	37886	35626
35°	44517	33863	32130
40°	38415	29677	28704
45°	32523	25545	24879
50°	27888	21577	21364
55°	24181	18159	17452
60°	21106	14747	12444
65°	18562	11363	6875
70°	16012	7517	3366
75°	13577	3643	1292
80°	10513	1578	789
85°	6227	755	755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	5.3
10°-20°	234.1	15.0
20°-30°	329.7	21.1
30°-40°	336.9	21.5
40°-50°	271.6	17.4
50°-60°	182.2	11.7
60°-70°	92.2	5.9
70°-80°	29.5	1.9
80°-90°	4.5	0.3
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°	646.7	41.4
0°-40°	983.5	62.9
0°-60°	1437.3	91.9
0°-90°	1563.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1563.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	877	877	877	877	877	
5°	891	885	872	859	853	86
15°	921	884	821	784	775	260
25°	861	793	687	645	642	394
35°	665	605	506	478	480	414
45°	420	386	330	318	321	326
55°	253	225	190	181	183	228
65°	143	118	88	58	53	143
75°	64	46	17	6	6	69
85°	10	5	1	1	1	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4
2.5°	881.1	879.9	878.6	876.1	872.4	868.8	866.3	863.8	862.6
5°	891.0	888.5	884.8	879.9	872.4	863.8	858.9	853.9	852.7
7.5°	904.6	899.6	889.7	878.6	866.3	853.9	845.3	840.3	836.7
10°	910.7	902.1	888.5	870.0	851.4	836.7	825.6	818.1	815.6
12.5°	915.7	905.7	886.0	861.3	836.7	816.9	804.5	798.4	795.9
15°	920.6	910.7	883.5	851.4	820.6	797.2	783.6	777.5	775.0
17.5°	920.6	907.0	874.9	834.2	797.2	768.9	755.3	749.0	747.8
20°	909.5	894.6	855.2	807.0	765.1	733.1	720.7	717.0	714.5
22.5°	888.5	871.3	826.8	772.5	726.8	696.0	682.4	679.9	677.5
25°	861.3	844.1	793.4	735.4	687.4	656.5	645.4	643.0	641.7
27.5°	826.8	808.3	755.3	696.0	644.1	614.5	604.7	604.7	603.4
30°	782.3	761.4	709.6	650.3	598.5	571.4	563.9	563.9	562.8
32.5°	728.1	707.1	660.2	603.4	554.0	525.7	519.5	522.0	520.7
35°	665.2	647.8	604.7	549.2	506.0	480.1	477.6	480.1	480.1
37.5°	602.2	586.2	549.2	501.0	460.3	436.9	436.9	440.5	439.3
40°	536.8	524.5	489.9	448.0	414.7	398.6	396.1	399.8	401.1
42.5°	475.1	465.2	435.6	401.1	371.4	355.4	359.0	361.5	362.8
45°	419.5	409.7	386.2	350.4	329.5	318.4	318.4	322.1	320.9
47.5°	370.2	362.8	339.3	304.8	286.3	281.3	283.8	286.3	286.3
50°	327.0	315.9	293.7	266.6	253.0	246.8	249.3	250.5	250.5
52.5°	286.3	278.9	256.6	232.0	219.7	215.9	215.9	217.2	217.2
55°	253.0	244.4	224.6	199.9	190.0	185.1	181.4	180.1	182.6
57.5°	220.9	213.5	195.0	171.5	160.4	155.4	148.1	145.6	148.1
60°	192.5	186.4	167.8	145.6	134.5	124.6	116.0	111.0	113.5
62.5°	167.8	160.4	142.0	123.4	111.0	99.9	86.3	79.0	82.7
65°	143.1	137.0	118.5	99.9	87.6	74.0	58.0	53.0	53.0
67.5°	120.9	114.8	97.4	81.5	66.6	50.6	35.8	34.6	35.8
70°	99.9	93.8	79.0	62.9	46.9	30.8	21.0	21.0	21.0
72.5°	82.7	75.2	61.7	45.7	29.6	16.1	11.1	12.3	12.3
75°	64.1	58.0	45.7	30.8	17.2	7.4	6.1	6.1	6.1
77.5°	48.2	43.2	32.1	19.7	8.6	2.5	2.5	2.5	2.5
80°	33.3	28.4	21.0	12.3	5.0	2.5	2.5	2.5	2.5
82.5°	19.7	17.2	12.3	6.1	2.5	1.2	1.2	1.2	1.2
85°	9.9	8.6	5.0	2.5	1.2	1.2	1.2	1.2	1.2
87.5°	2.5	2.5	1.2	1.2	0.0	1.2	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)