

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: P593157

Luminaire Tested: **HC620D010-HM60525950-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593157
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-HM60525950-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1666.6 lumens
Efficiency: N/A
Efficacy: 83.3 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

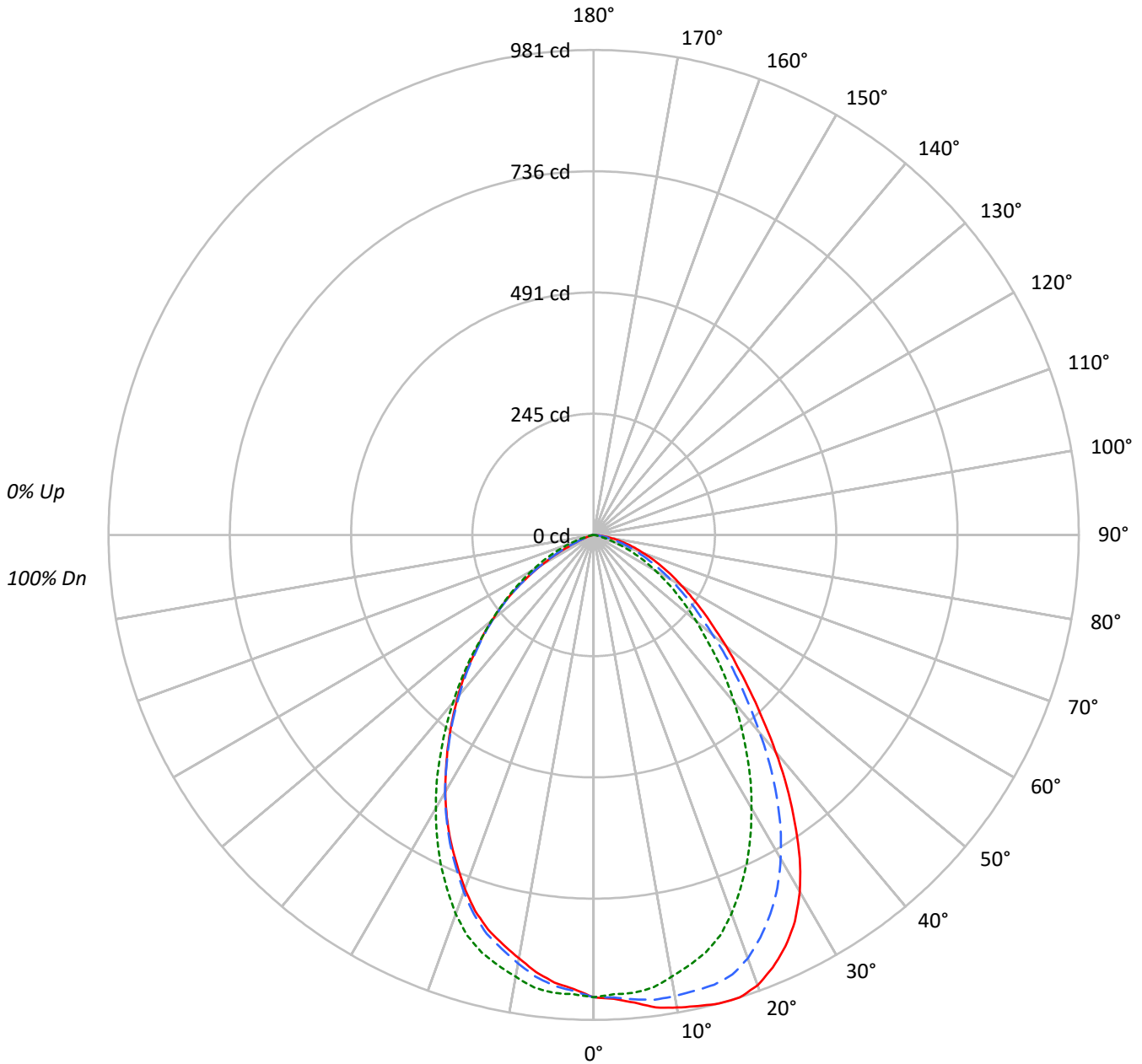
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
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	66	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°	51273	51273	51273
5°	52262	51178	50016
10°	54040	50522	48401
15°	55693	49643	46884
20°	56553	47575	44431
25°	55539	44319	41373
30°	52793	40386	37968
35°	47448	36092	34245
40°	40948	31631	30593
45°	34670	27228	26522
50°	29730	23001	22771
55°	25777	19364	18599
60°	22498	15711	13266
65°	19795	12115	7329
70°	17070	8014	3574
75°	14488	3918	1398
80°	11207	1642	821
85°	6604	881	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	5.3
10°-20°	249.6	15.0
20°-30°	351.5	21.1
30°-40°	359.1	21.5
40°-50°	289.5	17.4
50°-60°	194.2	11.7
60°-70°	98.3	5.9
70°-80°	31.4	1.9
80°-90°	4.9	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°	689.3	41.4
0°-40°	1048.4	62.9
0°-60°	1532.1	91.9
0°-90°	1666.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1666.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	935	935	935	935	935	
5°	950	943	930	916	909	91
15°	981	942	875	835	826	277
25°	918	846	733	688	684	420
35°	709	645	539	509	512	441
45°	447	412	351	339	342	348
55°	270	239	203	193	195	243
65°	153	126	93	62	56	152
75°	68	49	18	7	7	73
85°	10	5	1	1	1	14
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°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3
2.5°	939.1	937.9	936.5	933.9	930.0	926.0	923.4	920.8	919.4
5°	949.7	947.1	943.1	937.9	930.0	920.8	915.5	910.3	908.9
7.5°	964.2	958.9	948.4	936.5	923.4	910.3	901.1	895.7	891.8
10°	970.8	961.6	947.1	927.4	907.6	891.8	880.0	872.1	869.5
12.5°	976.0	965.5	944.5	918.2	891.8	870.8	857.7	851.0	848.4
15°	981.3	970.8	941.9	907.6	874.7	849.8	835.2	828.7	826.1
17.5°	981.3	966.8	932.6	889.2	849.8	819.5	805.0	798.4	797.1
20°	969.4	953.6	911.6	860.3	815.5	781.3	768.2	764.2	761.6
22.5°	947.1	928.6	881.4	823.5	774.7	741.9	727.4	724.8	722.2
25°	918.2	899.7	845.8	783.9	732.7	699.7	688.0	685.4	684.0
27.5°	881.4	861.5	805.0	741.9	686.6	655.1	644.6	644.6	643.2
30°	834.0	811.6	756.4	693.2	638.0	609.0	601.2	601.2	599.8
32.5°	776.1	753.7	703.7	643.2	590.6	560.4	553.8	556.4	555.1
35°	709.0	690.6	644.6	585.3	539.3	511.7	509.1	511.7	511.7
37.5°	642.0	624.8	585.3	534.1	490.6	465.7	465.7	469.6	468.3
40°	572.2	559.0	522.2	477.4	442.0	424.9	422.3	426.2	427.5
42.5°	506.5	495.9	464.3	427.5	396.0	378.9	382.7	385.4	386.7
45°	447.2	436.7	411.7	373.6	351.2	339.3	339.3	343.3	342.1
47.5°	394.6	386.7	361.8	324.9	305.1	299.9	302.5	305.1	305.1
50°	348.6	336.7	313.0	284.2	269.7	263.1	265.7	267.0	267.0
52.5°	305.1	297.3	273.6	247.3	234.2	230.2	230.2	231.5	231.5
55°	269.7	260.5	239.4	213.1	202.6	197.3	193.4	192.0	194.6
57.5°	235.4	227.5	207.8	182.9	171.0	165.8	157.8	155.2	157.8
60°	205.2	198.6	178.9	155.2	143.3	132.9	123.6	118.4	121.0
62.5°	178.9	171.0	151.3	131.5	118.4	106.5	92.1	84.2	88.1
65°	152.6	146.0	126.3	106.5	93.4	79.0	61.9	56.5	56.5
67.5°	128.9	122.4	103.9	86.8	71.0	53.9	38.2	36.8	38.2
70°	106.5	99.9	84.2	67.1	50.0	32.9	22.3	22.3	22.3
72.5°	88.1	80.2	65.7	48.7	31.6	17.1	11.8	13.1	13.1
75°	68.4	61.9	48.7	32.9	18.5	7.9	6.6	6.6	6.6
77.5°	51.3	46.0	34.2	21.1	9.2	2.6	2.6	2.6	2.6
80°	35.5	30.3	22.3	13.1	5.2	2.6	2.6	2.6	2.6
82.5°	21.1	18.5	13.1	6.6	2.6	1.4	1.4	1.4	1.4
85°	10.5	9.2	5.2	2.6	1.4	1.4	1.4	1.4	1.4
87.5°	2.6	2.6	1.4	1.4	0.0	1.4	1.4	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)