

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: P581960

Luminaire Tested: **HC620D010-HM60525935-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581960
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-HM60525935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1646.0 lumens
Efficiency: N/A
Efficacy: 82.3 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

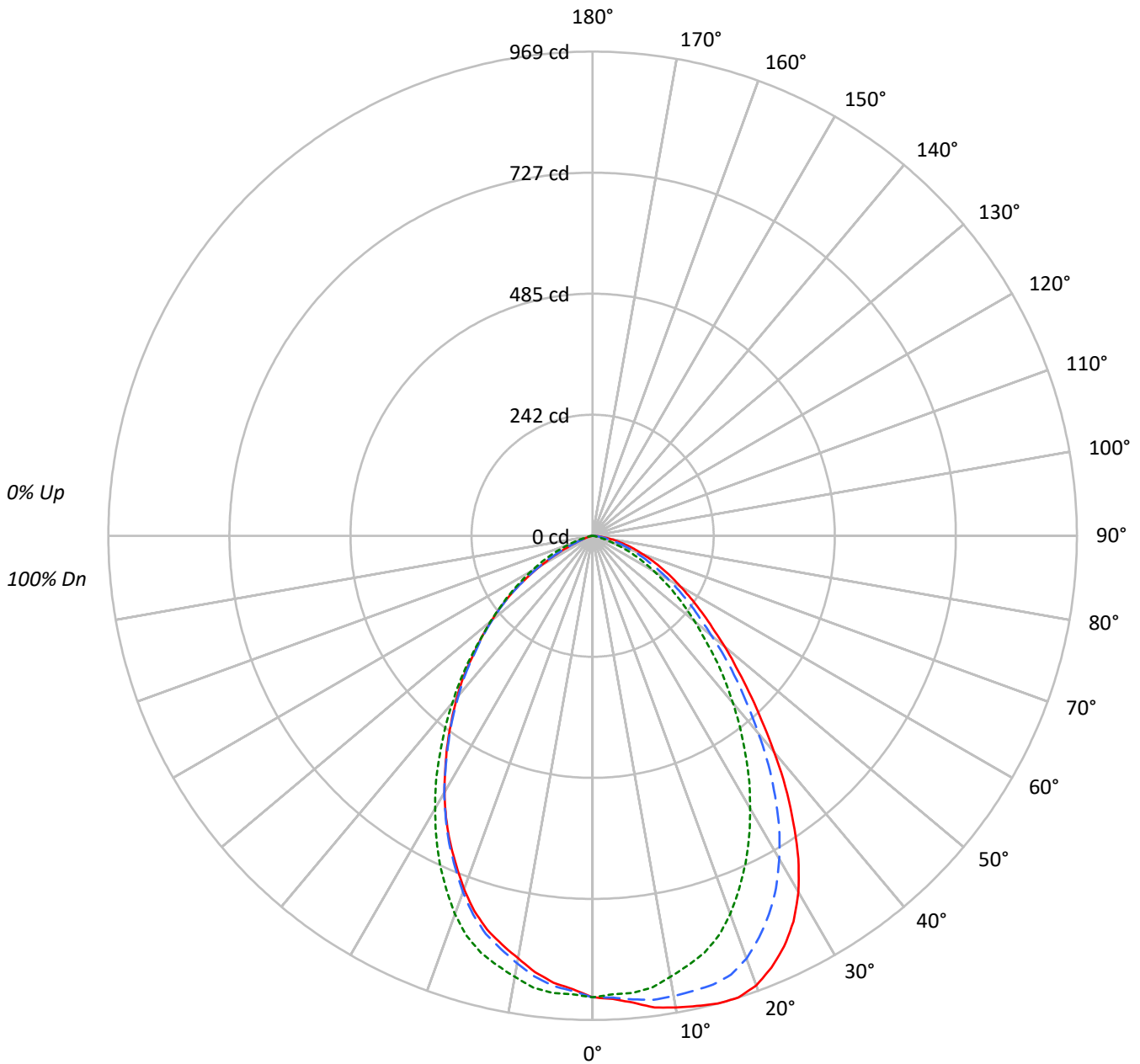
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581960

CATALOG NUMBER: HC620D010-HM60525935-61WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P581960

CATALOG NUMBER: HC620D010-HM60525935-61WWBB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	50632	50632	50632
5°	51618	50545	49400
10°	53367	49899	47800
15°	55006	49030	46306
20°	55859	46986	43882
25°	54844	43769	40859
30°	52141	39886	37499
35°	46860	35643	33816
40°	40440	31237	30214
45°	34236	26887	26181
50°	29364	22720	22498
55°	25461	19125	18379
60°	22224	15525	13102
65°	19548	11960	7251
70°	16878	7918	3542
75°	14297	3855	1377
80°	11081	1642	821
85°	6542	755	755



TEST NUMBER: P581960

CATALOG NUMBER: HC620D010-HM60525935-61WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	5.3
10°-20°	246.5	15.0
20°-30°	347.1	21.1
30°-40°	354.6	21.5
40°-50°	285.9	17.4
50°-60°	191.8	11.7
60°-70°	97.1	5.9
70°-80°	31.0	1.9
80°-90°	4.7	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°	680.8	41.4
0°-40°	1035.4	62.9
0°-60°	1513.2	91.9
0°-90°	1646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1646.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	924	924	924	924	924	
5°	938	931	918	904	898	90
15°	969	930	864	825	816	274
25°	907	835	724	680	676	415
35°	700	636	533	503	505	436
45°	442	407	347	335	338	343
55°	266	236	200	191	192	240
65°	151	125	92	61	56	150
75°	68	48	18	6	6	73
85°	10	5	1	1	1	14
90°	0	0	0	0	0	



TEST NUMBER: P581960

CATALOG NUMBER: HC620D010-HM60525935-61WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6	923.6
2.5°	927.6	926.2	925.0	922.4	918.5	914.6	912.0	909.3	908.1
5°	938.0	935.4	931.4	926.2	918.5	909.3	904.1	899.0	897.7
7.5°	952.3	947.1	936.7	925.0	912.0	899.0	889.9	884.6	880.8
10°	958.7	949.7	935.4	915.9	896.4	880.8	869.1	861.3	858.7
12.5°	964.0	953.5	932.8	906.7	880.8	860.1	847.0	840.6	838.0
15°	969.2	958.7	930.2	896.4	863.9	839.2	824.9	818.5	815.9
17.5°	969.2	954.9	921.0	878.2	839.2	809.3	795.0	788.6	787.2
20°	957.5	941.9	900.3	849.6	805.4	771.7	758.7	754.8	752.2
22.5°	935.4	917.2	870.4	813.3	765.2	732.7	718.4	715.8	713.2
25°	906.7	888.6	835.4	774.3	723.6	691.1	679.5	676.9	675.5
27.5°	870.4	850.9	795.0	732.7	678.1	646.9	636.5	636.5	635.3
30°	823.7	801.6	747.0	684.7	630.1	601.5	593.7	593.7	592.4
32.5°	766.5	744.4	695.0	635.3	583.3	553.5	546.9	549.5	548.3
35°	700.2	682.1	636.5	578.1	532.6	505.3	502.7	505.3	505.3
37.5°	633.9	617.0	578.1	527.4	484.6	459.9	459.9	463.7	462.5
40°	565.1	552.1	515.7	471.6	436.5	419.7	417.1	420.9	422.2
42.5°	500.1	489.8	458.6	422.2	391.0	374.1	378.1	380.7	381.9
45°	441.6	431.3	406.6	368.9	346.8	335.1	335.1	339.1	337.7
47.5°	389.8	381.9	357.2	320.9	301.4	296.2	298.8	301.4	301.4
50°	344.3	332.5	309.2	280.6	266.4	259.8	262.4	263.8	263.8
52.5°	301.4	293.6	270.2	244.3	231.2	227.4	227.4	228.6	228.6
55°	266.4	257.2	236.5	210.5	200.1	194.9	191.0	189.7	192.3
57.5°	232.5	224.8	205.3	180.6	168.9	163.7	155.9	153.3	155.9
60°	202.7	196.1	176.6	153.3	141.6	131.2	122.1	116.9	119.5
62.5°	176.6	168.9	149.4	130.0	116.9	105.3	91.0	83.2	87.0
65°	150.7	144.2	124.7	105.3	92.2	78.0	61.1	55.9	55.9
67.5°	127.3	120.8	102.6	85.8	70.1	53.3	37.7	36.4	37.7
70°	105.3	98.7	83.2	66.3	49.4	32.5	22.1	22.1	22.1
72.5°	87.0	79.2	64.9	48.0	31.2	16.9	11.7	13.0	13.0
75°	67.5	61.1	48.0	32.5	18.2	7.8	6.5	6.5	6.5
77.5°	50.6	45.4	33.8	20.7	9.1	2.6	2.6	2.6	2.6
80°	35.1	29.9	22.1	13.0	5.2	2.6	2.6	2.6	2.6
82.5°	20.7	18.2	13.0	6.5	2.6	1.2	1.2	1.2	1.2
85°	10.4	9.1	5.2	2.6	1.2	1.2	1.2	1.2	1.2
87.5°	2.6	2.6	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



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)