

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: P593140

Luminaire Tested: **HC620D010-HM60525850-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525850-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2089.6 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

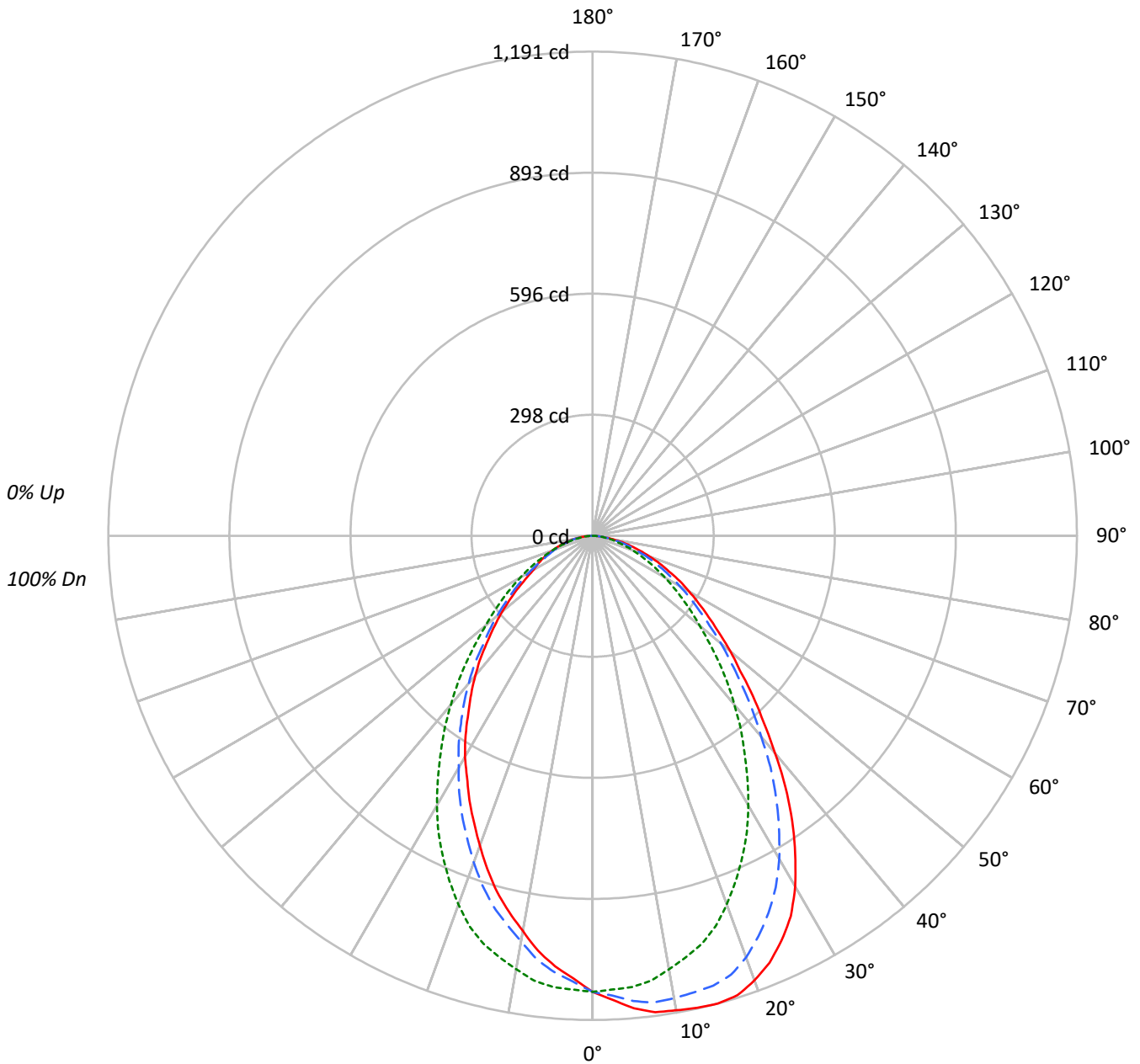
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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								
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	61497	61497	61497
5°	64220	61314	58491
10°	65970	60258	54964
15°	67605	58950	51499
20°	67906	56279	47301
25°	66482	52697	43382
30°	63079	48457	39753
35°	57286	43547	35670
40°	49915	38787	32089
45°	43191	33942	28204
50°	37722	29227	24716
55°	33327	25681	21218
60°	29965	22509	18376
65°	26838	19587	17823
70°	23946	16686	16686
75°	20778	14064	15674
80°	16669	11902	14301
85°	11385	10504	12328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	5.0
10°-20°	293.1	14.0
20°-30°	408.4	19.5
30°-40°	420.8	20.1
40°-50°	348.8	16.7
50°-60°	250.6	12.0
60°-70°	159.6	7.6
70°-80°	82.0	3.9
80°-90°	20.9	1.0
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°	806.9	38.6
0°-40°	1227.7	58.8
0°-60°	1827.1	87.4
0°-90°	2089.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2089.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1122	1122	1122	1122	1122	
5°	1167	1149	1114	1078	1063	112
15°	1191	1146	1039	944	907	336
25°	1099	1024	871	759	717	504
35°	856	786	651	565	533	532
45°	557	518	438	382	364	431
55°	349	320	269	238	222	314
65°	207	184	151	131	137	207
75°	98	84	66	70	74	105
85°	18	17	17	18	20	23
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°	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8
2.5°	1142.9	1138.3	1132.3	1126.3	1117.3	1106.6	1097.7	1094.6	1090.1
5°	1167.0	1161.0	1149.0	1133.8	1114.2	1094.6	1077.9	1067.4	1062.9
7.5°	1182.2	1174.6	1158.0	1132.3	1103.7	1075.0	1050.7	1035.7	1029.7
10°	1185.1	1177.6	1155.0	1120.2	1082.5	1043.3	1013.0	994.9	987.4
12.5°	1189.6	1179.1	1150.4	1109.7	1061.4	1016.1	978.3	955.7	948.1
15°	1191.2	1179.1	1145.9	1096.1	1038.7	984.4	943.6	916.4	907.4
17.5°	1185.1	1171.5	1132.3	1071.9	1007.0	949.7	901.3	872.6	860.5
20°	1164.0	1149.0	1103.7	1035.7	964.7	904.4	854.5	824.4	810.8
22.5°	1136.9	1117.3	1065.9	993.4	919.4	856.0	806.2	776.0	762.4
25°	1099.1	1081.0	1023.7	946.6	871.2	804.7	759.4	727.7	717.2
27.5°	1055.3	1034.2	975.3	898.4	821.3	754.9	711.1	682.4	668.8
30°	996.5	976.8	918.0	840.9	765.5	703.6	658.3	634.1	628.0
32.5°	927.0	910.4	853.0	780.5	708.1	650.7	613.0	587.3	581.2
35°	856.0	836.4	786.5	718.7	650.7	599.4	564.7	542.0	533.0
37.5°	779.1	760.9	718.7	658.3	597.9	549.5	519.4	499.8	490.7
40°	697.5	683.9	644.7	596.3	542.0	499.8	474.0	457.5	448.4
42.5°	622.0	608.4	581.2	535.9	490.7	453.0	430.3	415.1	407.7
45°	557.1	545.0	517.9	478.6	437.8	406.2	381.9	371.4	363.8
47.5°	492.2	486.2	462.0	425.8	388.1	360.9	344.2	332.2	326.1
50°	442.3	434.8	412.2	374.5	342.7	321.5	306.5	295.9	289.8
52.5°	391.0	383.5	362.3	330.6	305.0	285.3	270.2	261.2	255.2
55°	348.7	342.7	320.1	291.4	268.7	252.1	238.5	228.0	222.0
57.5°	309.5	303.4	282.3	255.2	235.6	220.4	208.4	199.3	191.7
60°	273.3	268.7	247.6	222.0	205.3	190.2	179.7	172.1	167.6
62.5°	241.6	232.5	214.4	191.7	176.6	164.5	154.0	149.4	152.5
65°	206.9	202.4	184.2	164.5	151.0	138.9	131.3	134.4	137.4
67.5°	178.1	172.1	157.0	138.9	126.8	117.7	113.2	119.3	120.8
70°	149.4	143.4	129.8	114.8	104.1	98.1	98.1	102.6	104.1
72.5°	122.3	117.7	105.7	93.6	86.1	81.6	84.5	87.6	89.1
75°	98.1	93.6	84.5	74.0	66.4	66.4	69.5	72.5	74.0
77.5°	75.5	72.5	63.4	55.9	52.8	52.8	55.9	57.3	58.9
80°	52.8	49.9	45.3	40.8	37.7	40.8	43.7	43.7	45.3
82.5°	34.7	33.2	30.3	27.2	27.2	28.7	30.3	31.7	31.7
85°	18.1	18.1	16.7	15.1	16.7	18.1	18.1	19.6	19.6
87.5°	6.0	6.0	6.0	6.0	7.6	7.6	7.6	7.6	7.6
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)