

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P210670

Luminaire Tested: **PR8S30D010 - PR8M34WW - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29052)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR8S30D010 - PR8M34WW - 3500K
Description: HALO 8" ROUND DOWNLIGHT, WALLWASH, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2581.7 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 1.18 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

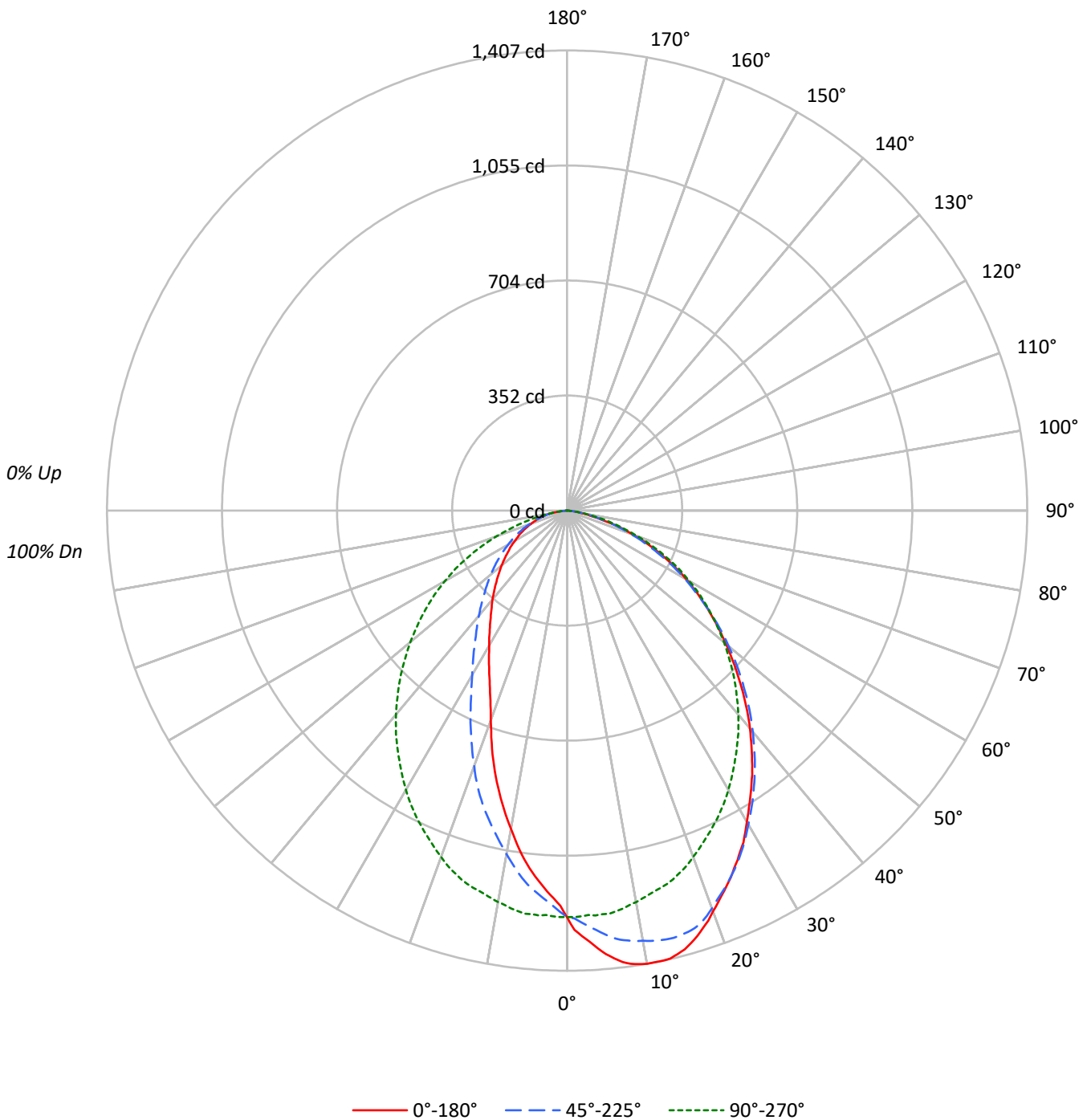
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88					86				
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66					64				
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40					39				
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37					35				
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33					32				
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	38342	38342	38342
5°	42129	38352	34752
10°	44062	38063	30939
15°	44336	37718	26922
20°	42794	36986	22383
25°	41081	36069	19122
30°	39142	35115	16995
35°	37125	33932	15374
40°	35013	32775	14274
45°	32668	31455	13314
50°	30386	30021	12554
55°	28209	28477	11860
60°	26001	26630	11305
65°	23064	24217	10981
70°	19267	20574	10540
75°	13261	16037	10246
80°	7867	10211	9660
85°	3786	4033	5130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	4.5
10°-20°	322.0	12.5
20°-30°	444.2	17.2
30°-40°	484.5	18.8
40°-50°	454.9	17.6
50°-60°	372.0	14.4
60°-70°	252.2	9.8
70°-80°	115.8	4.5
80°-90°	19.1	0.7
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°	883.2	34.2
0°-40°	1367.7	53.0
0°-60°	2194.6	85.0
0°-90°	2581.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1243	1243	1243	1243	1243	
5°	1361	1300	1239	1166	1123	131
15°	1389	1344	1182	958	843	389
25°	1207	1211	1060	699	562	555
35°	986	999	901	490	408	616
45°	749	764	721	357	305	579
55°	525	527	530	255	221	470
65°	316	306	332	166	150	313
75°	111	117	135	87	86	126
85°	11	10	11	14	14	16
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°	1243.4	1243.4	1243.4	1243.4	1243.4	1243.4	1243.4	1243.4	1243.4
1°	1282.6	1259.9	1246.6	1258.0	1242.8	1228.3	1227.0	1221.3	1208.7
2°	1301.6	1277.6	1259.9	1264.3	1241.5	1218.8	1210.6	1197.3	1186.5
3°	1319.9	1295.3	1273.2	1270.6	1238.4	1208.7	1194.8	1177.1	1166.3
4°	1342.1	1313.6	1286.4	1278.2	1240.9	1201.1	1180.2	1156.8	1144.2
5°	1361.0	1332.6	1299.7	1283.9	1239.0	1192.9	1165.7	1136.6	1122.7
6°	1376.8	1346.5	1312.3	1290.9	1239.0	1182.8	1150.5	1115.1	1099.9
7°	1390.7	1359.1	1321.8	1295.3	1234.0	1171.4	1131.6	1093.0	1074.7
8°	1399.6	1368.6	1327.5	1296.5	1228.9	1158.1	1111.3	1067.7	1047.5
9°	1404.0	1375.6	1333.2	1295.3	1220.7	1143.6	1088.6	1040.5	1017.8
10°	1407.2	1380.0	1335.7	1294.6	1215.6	1129.0	1067.1	1012.7	988.1
11°	1407.2	1380.6	1340.8	1293.4	1208.0	1113.9	1044.9	984.9	960.2
12°	1407.2	1380.0	1344.0	1293.4	1201.1	1099.9	1023.5	957.7	931.8
13°	1405.3	1380.6	1345.9	1294.6	1194.1	1085.4	1001.3	929.9	902.7
14°	1397.1	1379.4	1346.5	1293.4	1188.4	1074.0	979.8	902.7	873.0
15°	1388.8	1371.8	1344.0	1292.1	1181.5	1058.9	958.3	874.3	843.3
16°	1375.6	1361.0	1340.2	1289.0	1173.3	1043.7	935.6	845.8	811.7
17°	1360.4	1347.1	1335.1	1283.3	1162.5	1026.0	911.6	816.1	780.1
18°	1342.7	1333.2	1325.6	1275.7	1152.4	1007.0	886.3	785.1	747.2
19°	1326.3	1316.1	1311.1	1268.7	1141.0	988.7	860.4	754.2	713.7
20°	1304.1	1296.5	1294.6	1258.6	1127.1	967.2	830.6	721.9	682.1
21°	1285.2	1280.1	1276.9	1247.9	1114.5	948.9	804.7	689.7	653.0
22°	1265.6	1261.1	1261.1	1239.0	1100.6	929.3	777.5	661.2	626.5
23°	1247.2	1241.5	1246.0	1226.4	1087.3	910.9	751.6	634.0	603.7
24°	1228.9	1225.1	1228.3	1215.6	1074.0	892.0	725.7	611.3	581.6
25°	1207.4	1204.2	1210.6	1202.4	1060.1	871.7	699.2	589.8	562.0
26°	1188.4	1184.7	1192.2	1191.0	1047.5	850.9	673.2	568.9	543.7
27°	1167.0	1164.4	1172.0	1175.2	1032.3	832.5	648.0	550.0	526.6
28°	1148.6	1144.8	1152.4	1160.0	1017.8	811.1	623.9	531.6	509.5
29°	1123.3	1122.1	1130.3	1143.6	1002.0	792.1	601.8	514.6	492.4
30°	1099.3	1100.6	1108.2	1127.1	986.2	771.9	580.9	498.1	477.3
32.5°	1041.2	1044.9	1054.4	1078.5	944.4	720.0	534.2	458.9	441.2
35°	986.2	985.5	998.8	1025.4	901.4	668.8	490.5	424.2	408.4
37.5°	926.7	929.9	941.9	973.5	859.7	618.9	453.3	393.2	379.9
40°	869.8	874.3	882.5	917.3	814.2	565.8	419.7	364.8	354.6
42.5°	810.4	816.1	825.0	859.7	767.4	517.1	388.1	339.5	329.4
45°	749.1	756.1	764.3	800.9	721.3	469.7	357.2	316.1	305.3
47.5°	690.9	694.7	704.8	742.1	673.2	429.9	330.6	292.1	283.2
50°	633.4	637.2	644.8	682.7	625.8	391.3	304.7	269.9	261.7
52.5°	578.4	580.9	585.4	625.8	577.2	355.3	280.0	247.8	240.8
55°	524.7	526.0	526.6	567.0	529.7	320.5	254.8	226.9	220.6
57.5°	472.8	472.8	467.2	507.6	481.7	288.3	231.4	206.7	203.6
60°	421.6	421.6	414.7	450.1	431.8	257.3	208.6	187.7	183.3
62.5°	369.2	369.8	359.7	390.7	383.7	227.6	187.1	168.8	167.5
65°	316.1	316.7	306.0	333.1	331.9	198.5	165.6	151.1	150.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	264.9	264.2	254.1	276.9	280.7	171.9	144.8	133.4	133.4
70°	213.7	213.7	204.8	221.3	228.2	143.5	123.9	116.3	116.9
72.5°	166.9	166.3	160.6	170.7	178.3	116.9	105.6	100.5	101.1
75°	111.3	117.6	116.9	126.4	134.6	92.9	87.2	84.7	86.0
77.5°	71.4	75.2	79.7	87.9	92.3	70.2	68.3	68.3	69.5
80°	44.3	46.1	49.9	54.4	57.5	48.7	50.6	52.5	54.4
82.5°	25.3	25.3	26.6	29.1	33.5	29.7	32.2	34.8	34.8
85°	10.7	10.7	10.1	10.1	11.4	12.6	14.5	15.2	14.5
87.5°	2.5	2.5	1.9	1.3	1.9	2.5	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)