

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: P210599

Luminaire Tested: **PR8S15D010 - PR8M12WW - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29047)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR8S15D010 - PR8M12WW - 3000K
Description: HALO 8" ROUND DOWNLIGHT, WALLWASH, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1141.1 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 1.19 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

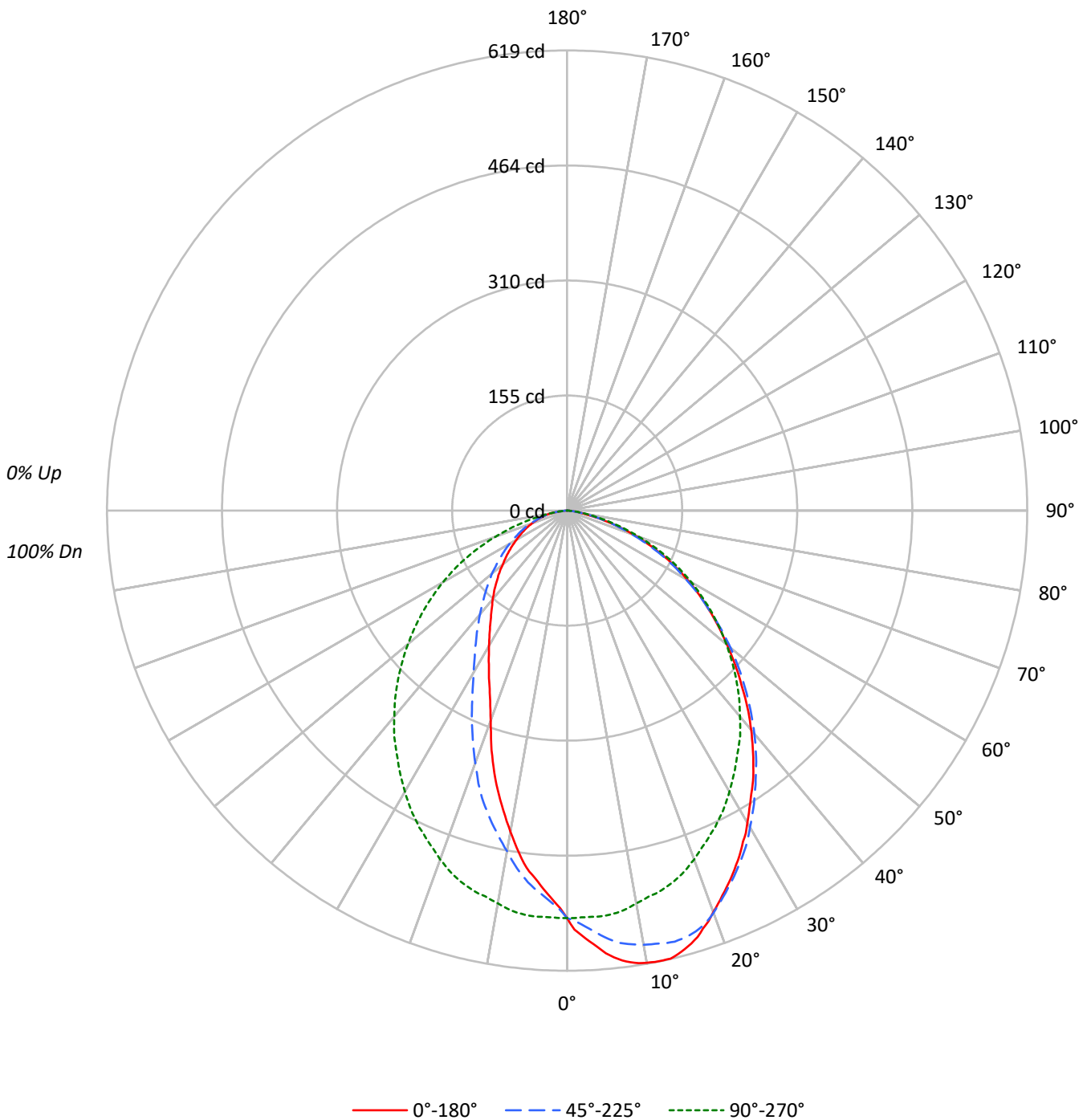
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86	86	86	86	86	86		
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74	74	74	74	74	74	74		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63	63	63	63	63	63	63		
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55	55	55	55	55	55	55		
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	50	48	48	48	48	48	48	48		
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43	43	43	43	43	43	43		
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38	38	38	38	38	38	38		
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35	35	35	35	35	35	35		
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	32	32	32	32	32	32	32		
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29	29	29	29	29	29	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16904	16904	16904
5°	18498	16950	15353
10°	19335	16799	13743
15°	19502	16687	11920
20°	18862	16385	9868
25°	18121	16008	8458
30°	17266	15549	7488
35°	16439	15039	6746
40°	15502	14560	6255
45°	14470	14033	5831
50°	13466	13413	5431
55°	12526	12709	5129
60°	11564	11909	4860
65°	10325	10850	4699
70°	8601	9205	4499
75°	6148	7077	4361
80°	3640	4635	4138
85°	1946	1769	1946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	4.5
10°-20°	142.1	12.5
20°-30°	196.1	17.2
30°-40°	214.2	18.8
40°-50°	201.4	17.6
50°-60°	164.3	14.4
60°-70°	111.7	9.8
70°-80°	51.4	4.5
80°-90°	8.5	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°	389.8	34.2
0°-40°	603.9	52.9
0°-60°	969.6	85.0
0°-90°	1141.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1141.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	548	548	548	548	548	
5°	598	576	548	510	496	58
15°	611	596	523	418	373	171
25°	533	537	470	304	249	245
35°	437	442	400	214	179	272
45°	332	339	322	155	134	256
55°	233	234	236	109	95	209
65°	142	138	149	71	64	140
75°	52	53	59	38	37	56
85°	6	5	5	6	6	8
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°	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2
1°	563.7	557.6	551.5	549.8	548.2	539.9	537.1	537.6	534.9
2°	572.0	565.4	557.1	552.6	547.6	536.0	529.9	528.8	524.9
3°	580.4	573.7	563.2	555.4	547.6	532.1	522.7	519.3	515.4
4°	588.7	582.6	569.3	559.3	547.6	528.8	516.0	510.4	506.0
5°	597.6	589.8	575.9	562.6	547.6	525.4	509.9	501.0	496.0
6°	604.2	597.0	581.5	565.4	546.5	521.0	502.7	491.6	488.3
7°	609.8	602.5	585.9	567.0	545.4	516.5	494.4	481.6	477.7
8°	613.6	607.0	588.7	567.6	543.2	510.4	486.0	469.9	464.9
9°	616.4	609.8	590.9	568.1	539.9	503.8	476.0	458.3	452.2
10°	617.5	612.0	593.1	568.1	536.5	497.7	465.5	445.5	438.9
11°	618.6	613.6	594.2	568.1	533.7	491.6	456.1	433.3	425.6
12°	618.6	613.6	595.3	568.1	530.4	484.9	446.6	421.1	412.2
13°	618.6	614.2	597.0	568.7	528.8	479.9	437.2	409.5	399.5
14°	615.3	613.6	597.6	568.7	526.0	473.3	427.8	396.7	386.7
15°	610.9	610.3	596.4	568.1	522.7	466.6	417.8	383.9	373.4
16°	605.9	604.8	594.8	567.6	519.3	460.0	408.4	371.2	359.0
17°	599.8	599.2	592.0	565.4	514.9	452.7	397.3	357.3	345.1
18°	591.4	592.6	588.1	562.6	510.4	445.5	386.2	343.4	330.7
19°	584.2	584.8	582.6	558.2	504.9	436.1	372.8	329.6	315.1
20°	574.8	576.5	575.9	554.8	499.3	427.2	361.7	315.1	300.7
21°	566.5	568.1	568.1	550.4	493.2	418.9	349.5	301.3	288.0
22°	558.2	559.8	560.4	546.0	487.1	410.6	337.9	289.1	276.3
23°	549.8	551.5	552.6	541.5	481.6	402.3	326.2	277.4	266.3
24°	541.5	543.2	544.8	536.0	475.5	393.4	315.1	267.4	256.9
25°	532.6	534.9	537.1	531.5	470.5	385.6	303.5	258.0	248.6
26°	523.8	526.0	528.8	526.0	463.8	376.2	291.8	249.1	240.2
27°	514.3	517.1	520.4	519.9	457.7	367.9	280.7	240.8	231.9
28°	504.3	507.7	512.1	513.8	451.1	359.0	270.2	232.5	224.7
29°	496.0	497.7	502.1	506.6	443.9	349.5	260.8	224.7	216.9
30°	484.9	487.7	492.1	498.2	436.7	340.7	251.3	217.5	210.3
32.5°	459.4	462.7	467.7	478.8	418.3	317.9	231.4	200.8	193.6
35°	436.7	437.2	442.2	455.5	399.5	295.2	213.6	184.8	179.2
37.5°	410.6	413.3	417.8	434.4	382.3	273.0	197.5	171.4	166.4
40°	385.1	387.3	391.7	407.8	361.7	250.8	182.5	159.8	155.4
42.5°	359.0	361.2	365.6	383.9	342.3	228.6	168.1	148.7	144.8
45°	331.8	334.0	339.0	357.9	321.8	208.1	155.4	137.6	133.7
47.5°	306.3	306.8	312.9	331.8	300.7	190.3	143.1	127.1	123.7
50°	280.7	281.3	286.8	305.7	279.6	172.6	132.0	116.0	113.2
52.5°	256.9	256.9	260.2	279.1	258.0	156.5	119.8	106.0	104.3
55°	233.0	232.5	233.6	252.4	236.4	142.0	109.3	97.1	95.4
57.5°	210.3	208.6	209.2	226.4	214.7	127.6	99.3	88.8	87.1
60°	187.5	186.4	184.2	200.8	193.1	112.6	89.3	80.5	78.8
62.5°	164.8	163.7	162.0	175.3	171.4	99.9	79.9	72.7	71.6
65°	141.5	141.5	138.2	149.2	148.7	87.1	71.0	64.9	64.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	118.2	117.1	114.9	123.7	125.4	74.9	62.1	57.1	57.1
70°	95.4	95.4	92.1	98.2	102.1	63.3	53.8	50.5	49.9
72.5°	73.2	73.8	71.6	76.0	80.5	51.6	45.5	43.8	43.3
75°	51.6	53.8	53.3	56.6	59.4	40.5	37.7	36.6	36.6
77.5°	31.6	35.0	36.6	39.4	41.1	30.5	30.0	30.0	30.0
80°	20.5	21.1	22.2	25.0	26.1	21.1	21.6	22.7	23.3
82.5°	11.7	11.7	12.2	13.3	14.4	12.8	13.9	15.0	15.0
85°	5.5	5.0	5.0	5.0	5.0	5.5	5.5	6.1	5.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)