

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

Report Number: P328498

Luminaire Tested: **L815MED30WW927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-14)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815MED30WW927MB
Description: Medium, 3000lm, WW, 2700K, black finish
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2138.0 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.77 / 0.63
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

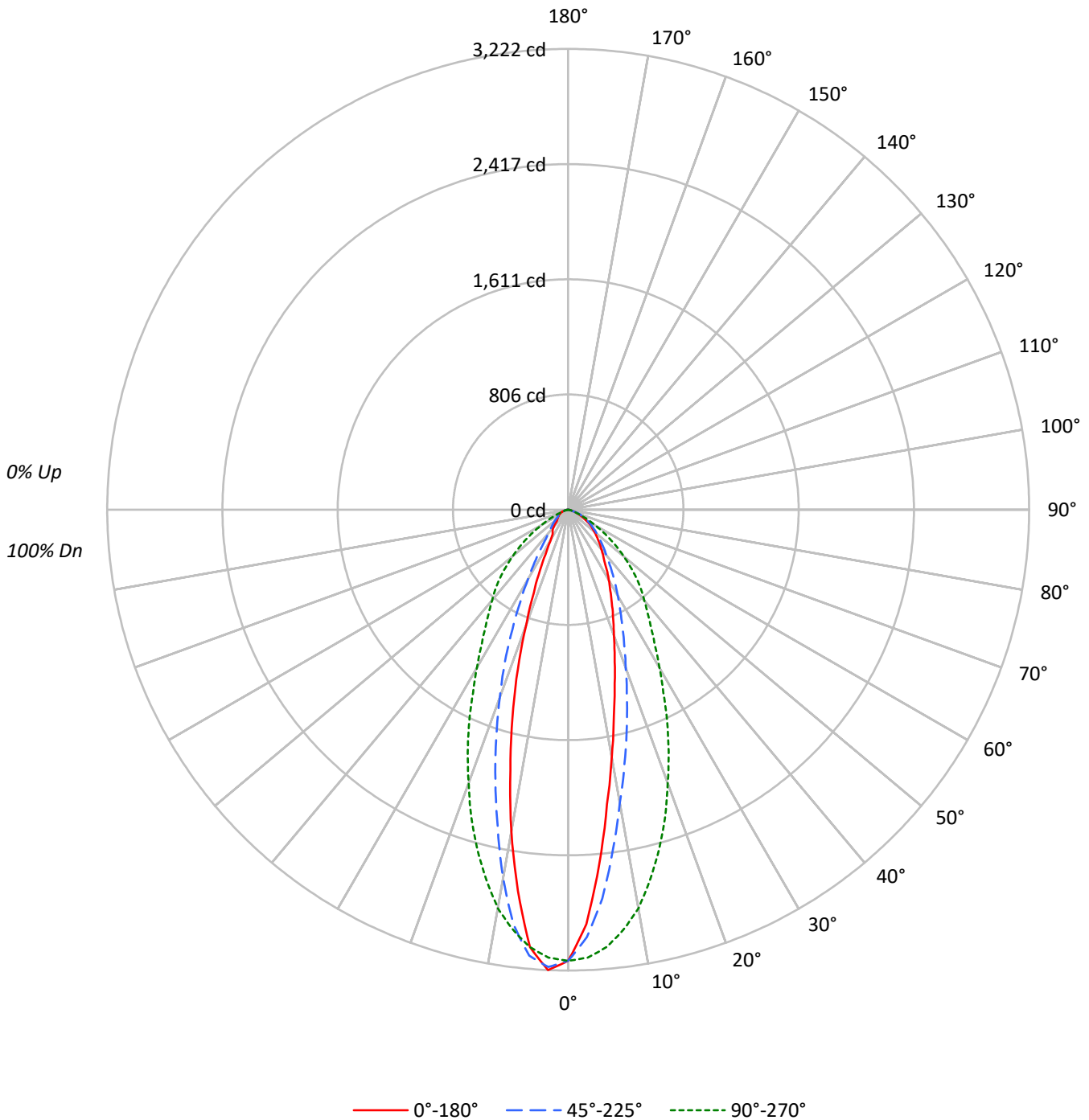
Input Watts (W): 37.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P328498

CATALOG NUMBER: L815MED30WW927MB

Luminous Intensity Polar Plot





TEST NUMBER: P328498

CATALOG NUMBER: L815MED30WW927MB

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75					75			
4	93	85	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68					68			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58					58			
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54					54			
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51					51			
9	71	60	54	50	70	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
10	68	57	51	47	66	57	51	46	56	50	46	55	50	46	54	49	46	45					45			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	389057	389057	389057
5°	308081	380142	380018
10°	219698	354353	286593
15°	160272	313521	191941
20°	122480	266881	113161
25°	98139	222668	63421
30°	80756	181609	34610
35°	66254	152249	28760
40°	57966	133338	25602
45°	51459	117414	19711
50°	45670	97097	18805
55°	40859	76126	18494
60°	34290	53532	18255
65°	26851	34731	18095
70°	19474	16950	16589
75°	13344	10961	15250
80°	6393	7814	13496
85°	0	1415	11322



TEST NUMBER: P328498

CATALOG NUMBER: L815MED30WW927MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.8	12.2
10°-20°	511.9	23.9
20°-30°	463.1	21.7
30°-40°	350.1	16.4
40°-50°	256.7	12.0
50°-60°	169.0	7.9
60°-70°	91.8	4.3
70°-80°	29.3	1.4
80°-90°	4.4	0.2
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°	1236.8	57.8
0°-40°	1586.9	74.2
0°-60°	2012.5	94.1
0°-90°	2138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2138.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3154	3154	3154	3154	3154	
5°	2488	2729	3070	3130	3069	214
15°	1255	1581	2455	1964	1503	353
25°	721	890	1636	922	466	334
35°	440	535	1011	333	191	281
45°	295	329	673	162	113	229
55°	190	206	354	91	86	169
65°	92	116	119	56	62	93
75°	28	19	23	28	32	30
85°	0	0	1	6	8	2
90°	0	0	0	0	0	



TEST NUMBER: P328498

CATALOG NUMBER: L815MED30WW927MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3154.2	3154.2	3154.2	3154.2	3154.2	3154.2	3154.2	3154.2	3154.2
2.5°	2900.2	2940.2	2991.2	3067.2	3134.2	3187.2	3200.2	3215.2	3222.2
5°	2488.2	2554.2	2729.2	2923.2	3070.2	3140.2	3130.2	3102.2	3069.2
7.5°	2077.2	2149.2	2398.2	2739.2	2962.2	3030.2	2925.2	2765.2	2687.2
10°	1754.1	1849.1	2080.2	2508.2	2829.2	2873.2	2618.2	2349.2	2288.2
12.5°	1473.1	1568.1	1818.1	2262.2	2647.2	2653.2	2276.2	1981.1	1866.1
15°	1255.1	1339.1	1581.1	2023.2	2455.2	2399.2	1964.1	1621.1	1503.1
17.5°	1078.1	1134.1	1363.1	1780.1	2254.2	2147.2	1674.1	1303.1	1170.1
20°	933.1	981.1	1175.1	1569.1	2033.2	1893.1	1394.1	998.1	862.1
22.5°	821.1	856.1	1024.1	1374.1	1834.1	1667.1	1157.1	742.1	629.0
25°	721.1	754.1	890.1	1200.1	1636.1	1470.1	922.1	536.0	466.0
27.5°	639.0	666.0	787.1	1057.1	1441.1	1292.1	724.1	388.0	324.0
30°	567.0	587.0	692.1	912.1	1275.1	1131.1	563.0	283.0	243.0
32.5°	504.0	517.0	610.0	795.1	1130.1	995.1	436.0	233.0	201.0
35°	440.0	458.0	535.0	697.1	1011.1	877.1	333.0	202.0	191.0
37.5°	400.0	410.0	471.0	610.0	911.1	759.1	256.0	181.0	178.0
40°	360.0	368.0	415.0	533.0	828.1	645.0	212.0	162.0	159.0
42.5°	328.0	333.0	371.0	473.0	752.1	528.0	184.0	145.0	136.0
45°	295.0	299.0	329.0	418.0	673.1	428.0	162.0	130.0	113.0
47.5°	266.0	269.0	292.0	374.0	590.0	342.0	143.0	114.0	104.0
50°	238.0	240.0	262.0	335.0	506.0	270.0	123.0	101.0	98.0
52.5°	213.0	215.0	232.0	303.0	429.0	215.0	105.0	90.0	93.0
55°	190.0	187.0	206.0	274.0	354.0	166.0	91.0	82.0	86.0
57.5°	164.0	163.0	181.0	247.0	282.0	127.0	81.0	75.0	80.0
60°	139.0	139.0	158.0	219.0	217.0	101.0	72.0	70.0	74.0
62.5°	117.0	116.0	136.0	192.0	167.0	80.0	64.0	65.0	68.0
65°	92.0	97.0	116.0	155.0	119.0	65.0	56.0	58.0	62.0
67.5°	72.0	78.0	95.0	105.0	80.0	52.0	49.0	51.0	55.0
70°	54.0	61.0	71.0	58.0	47.0	41.0	42.0	44.0	46.0
72.5°	40.0	46.0	38.0	31.0	32.0	33.0	35.0	38.0	40.0
75°	28.0	27.0	19.0	19.0	23.0	26.0	28.0	30.0	32.0
77.5°	15.0	14.0	11.0	13.0	17.0	20.0	22.0	24.0	25.0
80°	9.0	7.0	6.0	8.0	11.0	14.0	16.0	18.0	19.0
82.5°	4.0	3.0	2.0	3.0	6.0	8.0	11.0	13.0	14.0
85°	0.0	0.0	0.0	0.0	1.0	3.0	6.0	8.0	8.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)