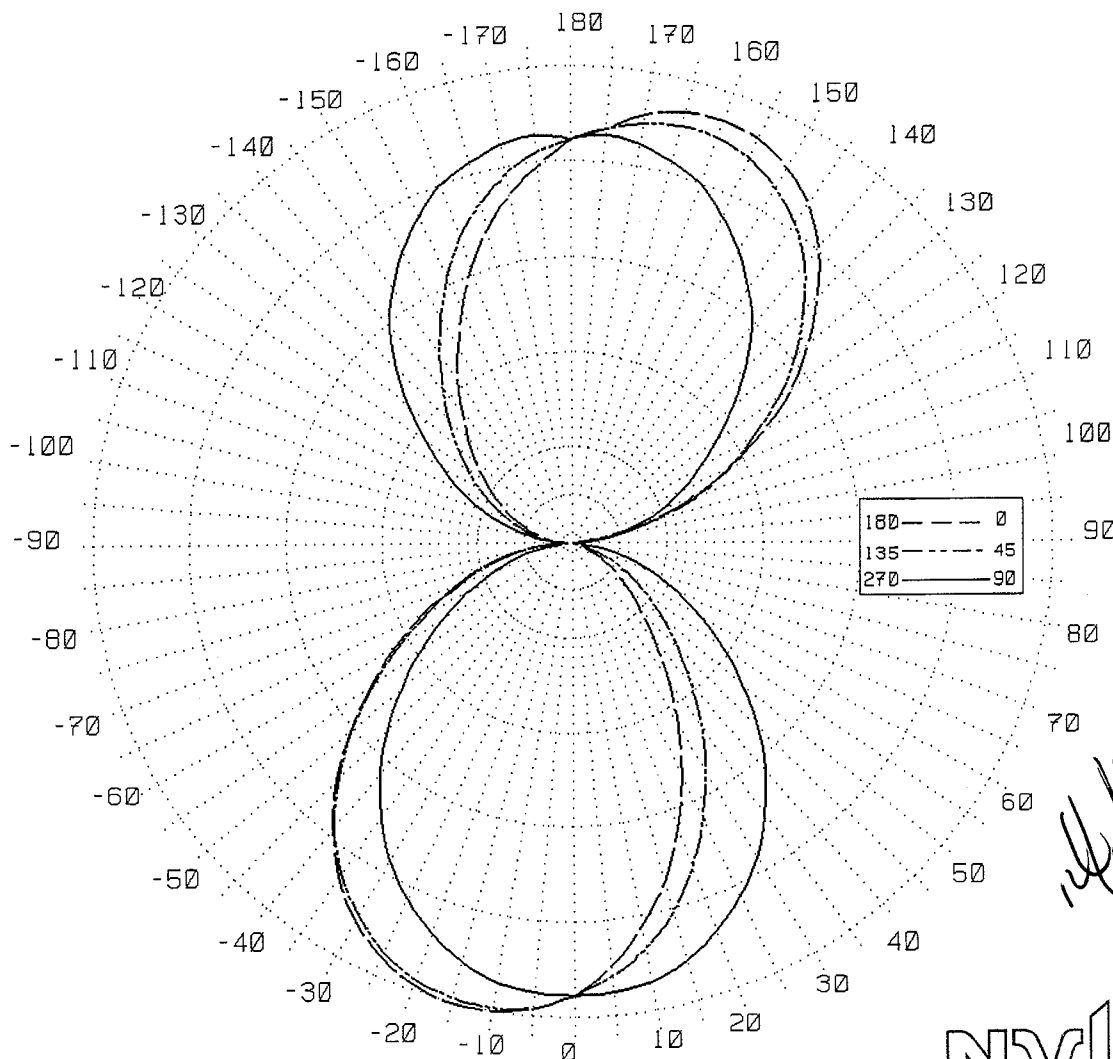


BALLABS CERTIFIED TEST REPORT NO.: 19020.0 DATE 08/06/15  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: 4-56LED 22"ARRAYS (2TOP,2BTM) 4'WALLMOUNT LUMINAIRE  
WHITE REFLECTOR w/FLAT FROSTED ACRYLIC LENSES TOP & BTM  
2 EVERLINE #D10CC55UNVTZ-C  
CATALOG NBR: CB-4-L48/840U-L48/840D-DIMU/DIMD-UNV  
LAMP TYPE : M10CC840D56N2A

0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER



**NVLAP**<sup>®</sup>

NVLAP LAB CODE 200921-0

LUMEN SUMMARY							
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1291.	NA.	16.0	90-120	763.	NA.	9.5
0- 40	2039.	NA.	25.3	90-130	1393.	NA.	17.3
0- 60	3315.	NA.	41.2	90-150	2871.	NA.	35.7
0- 90	3979.	NA.	49.5	90-180	4064.	NA.	50.5
TOTAL LUMINAIRE = 0-180					8043.	NA.	100.0

THIS BALLABS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THIS CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

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CANDLEPOWER DISTRIBUTION  
 0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER

VERT	HORIZONTAL									LUMENS		
	.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FRONT	BACK	TOTAL
0	1726.	1726.	1726.	1726.	1726.	1726.	1726.	1726.	1726.			
5	1627.	1628.	1659.	1698.	1721.	1748.	1780.	1799.	1777.	79.4	84.6	164.0
10	1491.	1509.	1571.	1643.	1699.	1749.	1795.	1823.	1806.			
15	1346.	1371.	1463.	1571.	1650.	1728.	1790.	1825.	1809.	208.5	251.8	460.3
20	1165.	1214.	1321.	1474.	1579.	1690.	1767.	1810.	1789.			
25	983.	1029.	1165.	1357.	1494.	1619.	1713.	1753.	1734.	276.1	390.3	666.4
30	803.	853.	1007.	1234.	1393.	1532.	1633.	1673.	1659.			
35	632.	697.	857.	1090.	1269.	1414.	1532.	1562.	1548.	280.6	467.4	748.0
40	490.	561.	701.	940.	1136.	1282.	1409.	1425.	1413.			
45	374.	436.	569.	796.	993.	1126.	1251.	1270.	1265.	238.5	463.9	702.4
50	292.	335.	456.	662.	842.	968.	1090.	1113.	1100.			
55	207.	247.	351.	533.	700.	823.	919.	956.	931.	174.8	398.9	573.8
60	144.	169.	266.	413.	567.	668.	746.	797.	773.			
65	92.	107.	178.	309.	437.	525.	592.	637.	620.	103.2	288.2	391.4
70	53.	64.	104.	204.	315.	402.	459.	486.	481.			
75	24.	29.	51.	114.	207.	288.	333.	355.	354.	37.8	169.9	207.8
80	3.	6.	18.	46.	115.	177.	221.	235.	233.			
85	7.	6.	7.	8.	43.	91.	121.	133.	141.	3.8	61.0	64.8
90	6.	7.	8.	11.	15.	22.	42.	53.	63.			
95	17.	23.	53.	79.	88.	76.	78.	68.	64.	27.7	39.3	67.0
100	124.	101.	181.	178.	161.	132.	133.	115.	108.			
105	305.	261.	328.	294.	256.	198.	186.	163.	153.	146.8	95.6	242.4
110	479.	442.	500.	422.	361.	280.	253.	221.	208.			
115	657.	601.	661.	568.	463.	373.	327.	286.	273.	290.2	163.5	453.6
120	844.	773.	801.	704.	567.	464.	402.	355.	330.			
125	1022.	969.	961.	840.	677.	569.	481.	429.	399.	405.7	223.9	629.6
130	1171.	1140.	1113.	964.	803.	683.	570.	515.	473.			
135	1321.	1305.	1245.	1098.	938.	797.	658.	599.	553.	465.3	270.3	735.5
140	1459.	1451.	1378.	1228.	1070.	913.	757.	697.	642.			
145	1565.	1557.	1477.	1345.	1176.	1035.	867.	791.	754.	455.7	286.8	742.5
150	1639.	1630.	1550.	1428.	1275.	1145.	985.	896.	854.			
155	1685.	1667.	1604.	1494.	1364.	1256.	1110.	1018.	978.	365.7	263.2	628.9
160	1698.	1680.	1632.	1537.	1447.	1350.	1228.	1142.	1106.			
165	1688.	1669.	1633.	1563.	1492.	1422.	1329.	1262.	1227.	229.0	190.2	419.2
170	1647.	1636.	1611.	1572.	1531.	1486.	1417.	1362.	1336.			
175	1573.	1568.	1573.	1558.	1551.	1530.	1486.	1452.	1431.	74.6	71.2	145.8
180	1530.	1530.	1530.	1530.	1530.	1530.	1530.	1530.	1530.			

USE .250 FT. AS LENGTH AND 3.792 FT. AS WIDTH

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 LAMP TYPE : M10CC840D56N2A

# ZONAL CAVITY COEFFICIENTS OF UTILIZATION

EFFECTIVE FLOOR CAVITY REFLECTANCE=.20

CEILING	.80				.70				.50				.30				.10				.00
WALL	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.00
RCR																					
0	1.07	1.07	1.07	1.07	.99	.99	.99	.99	.83	.83	.83	.69	.69	.69	.56	.56	.56	.49	.49	.49	.49
1	.98	.94	.90	.87	.91	.87	.84	.81	.74	.71	.69	.61	.60	.58	.50	.49	.48	.43	.43	.43	.43
2	.90	.83	.77	.72	.83	.77	.72	.67	.65	.62	.58	.55	.52	.50	.45	.43	.42	.37	.37	.37	.37
3	.83	.74	.67	.61	.76	.68	.62	.57	.58	.54	.50	.49	.46	.43	.41	.38	.36	.32	.32	.32	.32
4	.76	.65	.58	.52	.70	.61	.54	.49	.52	.47	.43	.44	.40	.37	.37	.34	.32	.28	.28	.28	.28
5	.69	.58	.50	.45	.64	.54	.47	.42	.47	.41	.37	.39	.35	.32	.33	.30	.27	.24	.24	.24	.24
6	.64	.52	.45	.39	.59	.49	.42	.37	.42	.37	.32	.36	.31	.28	.30	.27	.24	.21	.21	.21	.21
7	.59	.47	.40	.34	.55	.44	.37	.32	.38	.33	.29	.32	.28	.25	.27	.24	.21	.19	.19	.19	.19
8	.55	.43	.35	.30	.50	.40	.33	.28	.34	.29	.25	.29	.25	.22	.24	.21	.19	.16	.16	.16	.16
9	.51	.39	.31	.26	.47	.36	.29	.25	.31	.26	.22	.26	.22	.19	.22	.19	.16	.14	.14	.14	.14
10	.47	.35	.28	.23	.44	.33	.27	.22	.28	.23	.20	.24	.20	.17	.20	.17	.15	.13	.13	.13	.13

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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LAMP TYPE : M10CC840D56N2A

\*\*\*\*\*

ELECTRICAL CHARACTERISTICS 120.0V .8541A 102.35W

LUMINOUS EFFICACY (LUMENS / WATTS) = 78.6

TESTED IN ACCORDANCE WITH CURRENT IES STANDARDS  
UTILIZING ABSOLUTE PHOTOMETRY PER LM-79-08

